**Supplementary Table 5** Characterization of Immune Cell Composition in Patients with Different ENG Expression Levels Using the Cell-type Identification By Estimating Relative Subsets Of RNA Transcripts (CIBERSORT) Algorithm

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Natural killer cell** | **Natural killer T cell** | **Neutrophil** | **Plasmacytoid dendritic cell** | **Regulatory T cell** | **T follicular helper cell** | **Type 1 T helper cell** | **Type 17 T helper cell** | **Type 2 T helper cell** |
| 0.249633718 | 0.121235023 | -0.030289993 | 0.324387923 | 0.162446701 | 0.1526162 | 0.142724556 | 0.072910652 | 0.068677465 |
| 0.19498708 | 0.067581265 | -0.163910168 | 0.29881617 | 0.091778199 | 0.101520691 | 0.109499845 | -0.004038006 | 0.028786061 |
| 0.261059029 | 0.065116286 | -0.111359519 | 0.311056091 | 0.145324095 | 0.123875422 | 0.158451943 | -0.018215123 | 0.019464954 |
| 0.189851563 | -0.013594694 | -0.20194027 | 0.270061602 | 0.007948347 | 0.089629749 | 0.096206737 | -0.072578322 | 0.044672016 |
| 0.246534248 | 0.045852473 | -0.06824116 | 0.314708722 | 0.137377502 | 0.105952154 | 0.154042718 | -0.0187628 | 0.042279649 |
| 0.2499123 | 0.108271777 | -0.056063538 | 0.332949415 | 0.219618578 | 0.14024938 | 0.147398877 | -0.026750032 | 0.002269464 |
| 0.290678064 | 0.116802401 | -0.118196367 | 0.339316332 | 0.210103957 | 0.152963192 | 0.179832264 | -0.008474531 | 0.063189674 |
| 0.177533467 | 0.093900941 | -0.160447615 | 0.31670808 | 0.217826569 | 0.146354744 | 0.118922054 | 0.006460995 | 0.072869839 |
| 0.233556832 | 0.012145401 | -0.138728096 | 0.29725851 | 0.026059983 | 0.057936617 | 0.074452879 | 0.00616372 | 0.051364779 |
| 0.200318507 | 0.085370139 | -0.089190615 | 0.264125971 | 0.056911705 | 0.078881002 | 0.096906451 | -0.006851687 | 0.123309572 |
| 0.210580073 | 0.057607965 | -0.080141554 | 0.31399827 | 0.100722059 | 0.093267464 | 0.131899622 | -0.021434395 | -0.006094078 |
| 0.2200584 | 0.036069417 | -0.161038534 | 0.296109471 | 0.062290613 | 0.059814034 | 0.105517075 | 0.058803518 | -0.043347543 |
| 0.199159601 | 0.046819806 | -0.087139581 | 0.302550638 | 0.158896814 | 0.168802655 | 0.171976943 | -0.079838954 | -0.006738921 |
| 0.219969287 | 0.045292218 | -0.16311176 | 0.270432375 | 0.096073909 | 0.067420713 | 0.11208101 | -0.019459891 | 0.035181242 |
| 0.227007606 | 0.060575571 | -0.08273995 | 0.29392946 | 0.05143902 | 0.109714687 | 0.112374867 | -0.054140197 | 0.030909381 |
| 0.21964084 | 0.075278799 | -0.088328451 | 0.277012672 | 0.114556718 | 0.12031214 | 0.156949898 | -0.091260225 | -0.01396415 |
| 0.213944926 | 0.06875184 | -0.096602545 | 0.299600978 | 0.023803305 | 0.103432902 | 0.097195209 | -0.043930998 | 0.064841133 |
| 0.233598754 | 0.017530949 | -0.132808695 | 0.264328871 | 0.067045442 | 0.114902779 | 0.095520064 | -0.067575125 | 0.040032779 |
| 0.213419319 | 0.034948898 | -0.077058733 | 0.287455258 | 0.068500802 | 0.069189807 | 0.105861641 | -0.057908872 | -0.012473667 |
| 0.163925326 | 0.040646464 | -0.21469152 | 0.264249655 | 0.036658453 | 0.078059505 | 0.063055157 | -0.054798071 | 0.002649414 |
| 0.240582514 | 0.067925855 | -0.124434629 | 0.316316967 | 0.117109993 | 0.100816395 | 0.119339762 | -0.039403958 | 0.001778031 |
| 0.195007606 | 0.034011755 | -0.174486816 | 0.263546404 | 0.040348408 | 0.090525819 | 0.113564435 | -0.061123991 | 0.010280431 |
| 0.23170064 | 0.024610488 | -0.091905174 | 0.297288376 | 0.049434058 | 0.072926617 | 0.081637209 | -0.024017663 | 0.061257567 |
| 0.165185084 | 0.025037075 | -0.185564531 | 0.253344285 | 0.035922601 | 0.057877735 | 0.072119575 | -0.101688935 | 0.089201911 |
| 0.204497866 | 0.059681254 | -0.164770647 | 0.298239317 | 0.019014148 | 0.081095023 | 0.113980005 | -0.054901702 | 0.035945072 |
| 0.249900803 | 0.098576381 | -0.158851907 | 0.306160855 | 0.174226462 | 0.17950588 | 0.145822054 | -0.016752176 | 0.039715204 |
| 0.16156655 | 0.038073881 | -0.199346599 | 0.266004191 | 0.062303746 | 0.080673573 | 0.097951721 | -0.042021386 | 0.080284331 |
| 0.260948341 | 0.121000189 | -0.041391083 | 0.325447884 | 0.166473084 | 0.122917954 | 0.167019938 | -0.057558421 | 0.058839973 |
| 0.261562175 | 0.10357278 | -0.086074959 | 0.308012461 | 0.211404265 | 0.147036053 | 0.149393255 | -0.007001644 | 0.063263643 |
| 0.279799121 | 0.092531482 | -0.105263971 | 0.323948494 | 0.147614634 | 0.124226767 | 0.136757022 | 0.019392833 | 0.059477467 |
| 0.27855862 | 0.101309278 | 0.019717943 | 0.345923589 | 0.239130088 | 0.150174221 | 0.136494832 | 0.010562556 | 0.13553807 |
| 0.227995143 | 0.039929516 | -0.224877096 | 0.269276543 | 0.043161213 | 0.066537304 | 0.102148515 | -0.001703374 | -0.003568042 |
| 0.222383916 | 0.065651026 | -0.069475409 | 0.289988851 | 0.08770694 | 0.0919965 | 0.093277738 | -0.018483418 | -0.012638677 |
| 0.260196775 | 0.092729275 | -0.089730055 | 0.302159989 | 0.143383857 | 0.133334192 | 0.151508702 | -0.029651082 | 0.023609043 |
| 0.256769317 | 0.09225725 | -0.137510268 | 0.279788039 | 0.117145782 | 0.077281108 | 0.118992351 | -0.039074219 | 0.057109392 |
| 0.176432677 | 0.039231112 | -0.130595289 | 0.297760333 | 0.059051186 | 0.048655211 | 0.086381577 | -0.050917805 | 0.030333521 |
| 0.219982875 | 0.093489913 | -0.098641447 | 0.284033404 | 0.118723184 | 0.115084866 | 0.082158012 | 0.00143464 | 0.12238592 |
| 0.242529736 | 0.081794956 | -0.044312027 | 0.282876677 | 0.204661485 | 0.127978895 | 0.162720082 | -0.022569375 | 0.101853771 |
| 0.211869406 | 0.055487035 | -0.180706459 | 0.26183312 | 0.047986348 | 0.05813411 | 0.087191898 | -0.005551727 | 0.048669198 |
| 0.219934915 | 0.010181557 | -0.072110622 | 0.260782876 | -0.000520585 | 0.021331475 | 0.049006077 | -0.023404738 | 0.001727111 |
| 0.271405007 | 0.118228231 | 0.057907566 | 0.31888815 | 0.24964542 | 0.139914717 | 0.203840416 | 0.021495262 | 0.078692197 |
| 0.221265515 | 0.09067904 | -0.24332706 | 0.319552369 | 0.09571757 | 0.106264192 | 0.081446035 | 0.006493419 | 0.050173391 |
| 0.217211549 | 0.076431109 | -0.102694434 | 0.277702516 | 0.022099634 | 0.071714822 | 0.091799938 | -0.007017186 | 0.107802728 |
| 0.21293577 | 0.076218347 | -0.155809506 | 0.27607669 | 0.078844712 | 0.044555565 | 0.096398006 | -0.080501171 | 0.063989679 |
| 0.21668198 | 0.013954462 | -0.144715543 | 0.263772115 | 0.04611488 | 0.041944609 | 0.073676991 | -0.024869632 | 0.042958457 |
| 0.189358564 | 0.031842342 | -0.121125441 | 0.258963136 | -0.003572552 | 0.047196417 | 0.047180688 | -0.059901153 | 0.070927441 |
| 0.170776741 | 0.018033278 | -0.176443745 | 0.27196463 | -0.021208272 | 0.045932394 | 0.060994959 | -0.012572285 | -0.045443697 |
| 0.158852684 | 0.075752091 | -0.121507904 | 0.31632275 | 0.135705987 | 0.145942471 | 0.101842322 | -0.03241432 | 0.049048104 |
| 0.204689799 | 0.06624823 | -0.120163928 | 0.270050526 | 0.066032705 | 0.112097547 | 0.141978046 | -0.02182417 | 0.007865943 |
| 0.214149221 | 0.092141946 | -0.186292291 | 0.262065554 | 0.126955353 | 0.14199877 | 0.101399699 | -0.00557122 | 0.116531144 |
| 0.202548882 | 0.052207009 | -0.092924669 | 0.281829361 | 0.035582873 | 0.060284978 | 0.101869623 | -0.024586754 | 0.051450065 |
| 0.246336764 | 0.090142837 | -0.136485421 | 0.350228555 | 0.123868398 | 0.164089645 | 0.159578239 | -0.05568944 | 0.030621163 |
| 0.25136221 | 0.08664243 | -0.074313118 | 0.323638008 | 0.110552149 | 0.118568281 | 0.138117247 | 0.001926497 | 0.009343647 |
| 0.234181607 | 0.064800231 | -0.112562175 | 0.286058503 | 0.108537106 | 0.07938021 | 0.113861719 | -0.027176977 | 0.036522094 |
| 0.161680072 | 0.046473111 | -0.166625456 | 0.262803461 | -0.000459199 | 0.093047073 | 0.058670646 | -0.128916263 | 0.042931127 |
| 0.191410235 | 0.070576754 | -0.196139928 | 0.273128412 | 0.139088035 | 0.126826714 | 0.11734316 | -0.054096893 | 0.114131791 |
| 0.214077708 | 0.076226141 | -0.063574143 | 0.297621909 | 0.131286441 | 0.140853871 | 0.099402102 | -0.042425569 | 0.08232655 |
| 0.183104797 | 0.076840041 | -0.023373193 | 0.324037771 | 0.010360876 | 0.05992161 | 0.088219576 | -0.049066247 | 0.069702823 |
| 0.256361912 | 0.076118657 | -0.214075005 | 0.326066532 | 0.107455098 | 0.126633177 | 0.128737096 | -0.022457088 | 0.005658168 |
| 0.271716891 | 0.082914527 | -0.146516264 | 0.326097738 | 0.084920822 | 0.128091583 | 0.150146362 | -0.077143876 | 0.100850743 |
| 0.271982047 | 0.087352457 | 0.017157241 | 0.313058839 | 0.156329102 | 0.126809021 | 0.143071032 | -0.008803934 | 0.050817104 |
| 0.230177017 | 0.076736229 | -0.104351096 | 0.270058084 | 0.12287398 | 0.093364543 | 0.056912762 | -0.02071998 | 0.111983572 |
| 0.19546293 | 0.087728216 | -0.131217035 | 0.274367563 | 0.04282901 | 0.065046113 | 0.067050765 | -0.062110104 | 0.099814923 |
| 0.181671584 | 0.061222552 | -0.056284507 | 0.314397445 | 0.084802603 | 0.080503222 | 0.104607559 | -0.065080346 | 0.032419807 |
| 0.263562355 | 0.135501605 | -0.127124075 | 0.322230071 | 0.250229171 | 0.17054542 | 0.146510216 | -0.006412373 | 0.119887996 |
| 0.268558107 | 0.185675173 | -0.162190818 | 0.345463924 | 0.338335263 | 0.255721728 | 0.188445564 | -0.025947509 | 0.151209446 |
| 0.223732592 | 0.047968184 | -0.219899941 | 0.288634818 | 0.085377494 | 0.087060112 | 0.092359119 | -0.062497692 | 0.05394538 |
| 0.204387798 | 0.061694392 | -0.053139594 | 0.295850321 | 0.075107605 | 0.079909434 | 0.10156216 | -0.037371695 | 0.067377974 |
| 0.23873693 | 0.084750513 | -0.048305259 | 0.310451944 | 0.045855731 | 0.133110058 | 0.108143033 | 0.013391441 | 0.060842893 |
| 0.205872195 | 0.070502385 | -0.128503505 | 0.285988416 | 0.128688525 | 0.099221181 | 0.117920815 | -0.041684035 | 0.06399528 |
| 0.154359335 | 0.081558479 | -0.175209177 | 0.303414816 | 0.049374273 | 0.111974287 | 0.052066175 | -0.036427227 | 0.045865322 |
| 0.164273063 | 0.073108455 | -0.121071481 | 0.26396278 | 0.052919441 | 0.071356804 | 0.058536091 | 0.015624037 | 0.087946408 |
| 0.172856782 | 0.083521066 | -0.112911683 | 0.317258444 | 0.1230069 | 0.138627046 | 0.135366605 | -0.047244797 | 0.029044188 |
| 0.199480137 | 0.027725402 | -0.161826018 | 0.253754597 | -0.033470386 | 0.064715876 | 0.08424104 | -0.002130855 | -0.010015964 |
| 0.187313752 | 0.044800679 | -0.099005047 | 0.287933713 | 0.051001448 | 0.139151862 | 0.107775628 | -0.080100347 | 0.055801979 |
| 0.167053142 | 0.0217973 | -0.240179715 | 0.266865637 | -0.003589675 | 0.085109651 | 0.088474401 | -0.041829581 | 0.078391115 |
| 0.135043133 | 0.054566697 | -0.273183569 | 0.267801131 | 0.055153417 | 0.040414921 | 0.037842422 | -0.108162344 | 0.074185042 |
| 0.24243123 | 0.136173248 | -0.255719942 | 0.333458625 | 0.198557572 | 0.197004854 | 0.155481544 | -0.005545481 | 0.134705326 |
| 0.14077936 | 0.056627192 | -0.264005847 | 0.252205289 | -0.009324202 | 0.070810733 | 0.044175354 | -0.073907857 | 0.043731368 |
| 0.179130875 | 0.022950169 | -0.150953203 | 0.236382868 | -0.00636024 | 0.031041082 | 0.052947047 | -0.01210684 | -0.020641609 |
| 0.188821303 | 0.036458116 | -0.123125276 | 0.240525642 | -0.019657177 | 0.052787906 | 0.033798151 | -0.062638785 | 0.08737995 |
| 0.189259776 | 0.104638031 | -0.118800956 | 0.291141653 | 0.097713069 | 0.094583895 | 0.076095781 | -0.022651565 | 0.05770983 |
| 0.181656789 | 0.062309614 | -0.158599579 | 0.221792564 | -0.005958463 | 0.078467254 | 0.088699728 | -0.076562166 | 0.021308612 |
| 0.168747651 | 0.024150392 | -0.071174755 | 0.282139409 | -0.05025095 | 0.060221985 | 0.086587754 | -0.060776401 | 0.010938622 |
| 0.206373459 | 0.068397646 | -0.111797756 | 0.268881922 | 0.054101615 | 0.092287631 | 0.11033855 | -0.01899789 | 0.037693331 |
| 0.133165116 | 0.056016006 | -0.194796762 | 0.203455266 | 0.015806603 | 0.078468558 | 0.064716559 | -0.083282086 | 0.055623778 |
| 0.218134135 | 0.123097012 | -0.187030655 | 0.346626029 | 0.235495445 | 0.221131252 | 0.152332963 | -0.086531147 | 0.079386758 |
| 0.127864802 | 0.032680597 | -0.203242634 | 0.262351071 | 0.059185263 | 0.07456125 | 0.089181875 | -0.101328409 | 0.05117466 |
| 0.231661756 | 0.080023705 | -0.086819114 | 0.268498645 | 0.079242101 | 0.094919674 | 0.089411442 | -0.043150532 | 0.060981878 |
| 0.296401425 | 0.117914644 | -0.156716097 | 0.307626168 | 0.179502706 | 0.17018963 | 0.146852004 | -0.021748472 | 0.12691863 |
| 0.260478431 | 0.061478847 | -0.104357199 | 0.291387448 | 0.067978064 | 0.075645505 | 0.123291684 | 0.006244742 | 0.054250277 |
| 0.162801093 | 0.083379719 | -0.224740484 | 0.288981037 | 0.055837303 | 0.121393923 | 0.120438549 | -0.008140406 | 0.032285615 |
| 0.173940211 | 0.014737127 | -0.143581511 | 0.285348247 | 0.049769286 | 0.105700951 | 0.119949222 | -0.076875728 | 0.016274904 |
| 0.204973637 | 0.105070174 | -0.122425346 | 0.274759476 | 0.088325515 | 0.08108287 | 0.126925154 | -0.054650645 | -0.025504844 |
| 0.216159506 | 0.085336824 | -0.098543074 | 0.255428097 | 0.027396408 | 0.039988065 | 0.071159759 | -0.005325315 | 0.052036134 |
| 0.206290056 | 0.019593933 | -0.108743128 | 0.264049891 | 0.010270184 | 0.07495928 | 0.09141443 | -0.017926796 | 0.024658884 |
| 0.250838231 | 0.078977047 | -0.110440241 | 0.291104802 | 0.066687784 | 0.112966245 | 0.109435674 | -0.002268513 | 0.082137654 |
| 0.231204948 | 0.032489277 | -0.097516975 | 0.292220995 | 0.065159952 | 0.070553356 | 0.087417564 | -0.019358723 | 0.006780961 |
| 0.201955814 | 0.051361022 | -0.228594798 | 0.292802238 | 0.103815337 | 0.114672033 | 0.106250272 | -0.055786638 | 0.104797283 |
| 0.223310845 | 0.022782924 | -0.140716184 | 0.290861781 | 0.075920304 | 0.079410791 | 0.101269987 | -0.071806662 | 0.01626819 |
| 0.243490912 | 0.120292016 | -0.173605576 | 0.302651941 | 0.220265175 | 0.167993027 | 0.140459436 | 0.010707662 | 0.115384274 |
| 0.230905847 | 0.058842969 | -0.055219812 | 0.311264629 | 0.151031548 | 0.135935226 | 0.186911465 | -0.028663509 | 0.100040063 |
| 0.1715947 | 0.037627308 | -0.219320641 | 0.289909155 | 0.059394545 | 0.097882847 | 0.085953622 | -0.049725618 | 0.025966359 |
| 0.188509807 | 0.054596388 | -0.204513755 | 0.224755252 | 0.109771985 | 0.114733621 | 0.092623901 | -0.087636634 | 0.014160568 |
| 0.250005629 | 0.112755394 | -0.132132283 | 0.31720692 | 0.16668956 | 0.135909643 | 0.139716112 | -0.029538761 | 0.043279711 |
| 0.24404711 | 0.071198558 | -0.114273919 | 0.283090533 | 0.034127597 | 0.092046741 | 0.066278092 | -0.079627339 | 0.064708687 |
| 0.257774737 | 0.084030626 | -0.100961461 | 0.342024839 | 0.123273507 | 0.112379946 | 0.119030291 | -0.029930474 | 0.060717697 |
| 0.137034351 | 0.07383456 | -0.178749218 | 0.280355288 | 0.079227964 | 0.10570368 | 0.10269804 | -0.079269609 | 0.056361223 |
| 0.229610762 | 0.076176146 | -0.090448866 | 0.301228748 | 0.149316867 | 0.114799754 | 0.133202812 | -0.024124979 | 0.043920565 |
| 0.122757622 | 0.085531779 | -0.235667808 | 0.311010274 | 0.119857836 | 0.098791812 | 0.081173533 | -0.08579878 | 0.042981132 |
| 0.183707284 | 0.080940278 | -0.159537791 | 0.295745681 | 0.147152297 | 0.133450776 | 0.147088589 | -0.056463173 | 0.045552422 |
| 0.164354684 | 0.026325798 | -0.198964578 | 0.311277115 | 0.027846905 | 0.139656466 | 0.070387058 | -0.102343254 | 0.062969983 |
| 0.195873353 | 0.062997094 | -0.136300651 | 0.282173204 | 0.091652564 | 0.0896409 | 0.127025274 | -0.008595294 | -0.048390795 |
| 0.159322814 | 0.081099292 | -0.15290833 | 0.290632416 | 0.04979134 | 0.067474774 | 0.074659329 | -0.018185456 | 0.034116377 |
| 0.186691253 | 0.006703351 | -0.094274075 | 0.295382874 | -0.004847486 | 0.064187752 | 0.071779037 | -0.045258568 | 0.011244429 |
| 0.244368791 | 0.075008038 | -0.042638253 | 0.302798547 | 0.111711101 | 0.096706319 | 0.100497596 | -0.000270879 | -0.002121915 |
| 0.207544862 | 0.017911877 | -0.086540809 | 0.276783673 | 0.133006499 | 0.072322383 | 0.129910824 | -0.072612933 | 0.015501031 |
| 0.142924327 | 0.059250372 | -0.081400039 | 0.281355734 | 0.033480046 | 0.069241858 | 0.122608884 | -0.022412013 | -0.010418609 |
| 0.171906125 | 0.023049504 | -0.100655102 | 0.26805765 | 0.011891758 | 0.031090679 | 0.083705789 | 0.006609181 | 0.015814903 |
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| 0.240507668 | 0.073740718 | -0.015131951 | 0.312092238 | 0.079638474 | 0.093177941 | 0.12313651 | -0.021697591 | -0.005401443 |
| 0.184639326 | -0.01140936 | -0.181254727 | 0.267457336 | 0.019249269 | 0.014252244 | 0.092501898 | -0.039254548 | 0.020050014 |
| 0.254523987 | 0.04865163 | -0.112032793 | 0.268912831 | 0.065982126 | 0.08396976 | 0.106489312 | -0.017310465 | 0.054383455 |
| 0.163806283 | 0.038526898 | -0.178631554 | 0.292731644 | 0.056620644 | 0.099867324 | 0.122282353 | -0.043164218 | 0.026871778 |