

Abbreviations

| | |
|------------|---|
| A | deoxyadenine |
| AID | activation-induced cytidine deaminase |
| AP | apyrimidinic |
| APOBEC | apolipoprotein B mRNA editing catalytic polypeptide |
| B cell | bone marrow derived B lymphocyte |
| bp | base pairs |
| C | deoxycytidine |
| C region | constant region |
| C terminus | carboxy terminus |
| cDNA | complementary DNA (complementary to mRNA) |
| CDR | complementarity-determining region |
| CSR | class switch recombination |
| D | diversity |
| DNA | deoxyribonucleic acid |
| DNA-PK | DNA-dependent protein kinase |
| dsDNA | double-strand DNA |
| EDTA | ethylenediaminetetraacetic acid |
| EGFP | enhanced green fluorescent protein |
| ELISA | enzyme-linked immunosorbent assay |
| ER | endoplasmic reticulum |
| FACS | fluorescence-activated cell sorter |
| FR | framework region |
| G | deoxyguanine |
| GFP | green fluorescent protein |
| H chain | heavy chain |
| HEK | human embryonic kidney epithelial cell line |
| HIGM2 | hyper IgM syndrome 2 |
| hr | hour |
| HRP | horse radish peroxidase |
| Ig | immunoglobulin |
| IP | immunoprecipitation |
| J | joining |
| kDa or kD | kilo Dalton |
| KO | knock out |
| L chain | light chain |
| LTR | long terminal repeats |
| min | minutes |
| MMR | mismatch repair |
| N terminus | amino terminus |
| NES | nuclear export signal |
| NLS | nuclear localization signal |
| ORF | open reading frame |
| PBS | phosphate buffered saline |
| PCR | polymerase chain reaction |
| PMSF | phenyl-methylsulfonyl fluoride |
| PNGase | peptide N-Glycosidase F |
| R | purine |
| RNA | ribonucleic acid |
| RNAi | RNA interference |
| S | switch |

| | |
|----------|-----------------------------------|
| SDS | sodium dodecyl sulfate |
| sec | seconds |
| SHM | somatic hypermutation |
| shRNA | short hairpin RNA |
| siRNA | small interfering RNA |
| SNP | single nucleotide polymorphism |
| ssDNA | single-strand DNA |
| Supt | suppressor of Ty |
| T | deoxythymidine |
| TBS-T | tris-buffered saline Tween-20 |
| Th cell | T helper cell |
| U | deoxyuracil |
| UNG | uracil-DNA glycosylase |
| V region | variable region |
| V_{NP} | nonproductive V(D)J rearrangement |
| V_P | productive V(D)J rearrangement |
| W | deoxyadenine or deoxythymidine |
| WEHI | Walter and Eliza Hall Institute |
| WT | wildtype |
| Y | pyrimidine |