

Product datasheet for **TP727838**

CD19 Cynomolgus Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant Cynomolgus CD19/CD19 Molecule (C-Fc) |
| Species: | Cynomolgus |
| Expression cDNA Clone or AA Sequence: | Pro20-Lys292 |
| Tag: | C-Fc |
| Buffer: | Lyophilized from a 0.2 um filtered solution of PBS,pH7.4. |
| Note: | Recombinant Rhesus macaque CD19 molecule is produced by our Mammalian expression system and the target gene encoding Pro20-Lys292 is expressed with a Fc tag at the C-terminus. |
| Stability: | 12 months from date of despatch |
| Locus ID: | 705211 |
| Summary: | CD19 is a single-pass type I membrane protein containing 2 Ig-like C2-type (immunoglobulin-like) domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. CD19 primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Src-family kinases and recruitment of PI-3 kinase. CD19 Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) which is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. |



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