

# CD3G Rabbit mAb

Catalog # AP78050

## Product Information

|                          |   |
|--------------------------|---|
| <b>Application</b>       | WB, IHC-P, IF, FC, ICC, IP                    |
| <b>Primary Accession</b> | <a href="#">P09693</a>                        |
| <b>Reactivity</b>        | Human, Mouse                                  |
| <b>Host</b>              | Rabbit  |
| <b>Clonality</b>         | Monoclonal Antibody                           |
| <b>Isotype</b>           | IgG   |
| <b>Conjugate</b>         | Unconjugated                                  |
| <b>Immunogen</b>         | A synthesized peptide derived from human CD3G |
| <b>Purification</b>      | Affinity Chromatography                       |
| <b>Calculated MW</b>     | 20469   |

## Additional Information

|                    |  |
|--------------------|--|
| <b>Gene ID</b>     | 917  |
| <b>Other Names</b> | CD3G   |
| <b>Dilution</b>    | WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A<br>IP~~N/A                           |
| <b>Format</b>      | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| <b>Storage</b>     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.           |

## Protein Information

|                 |   |
|-----------------|---|
| <b>Name</b>     | CD3G  |
| <b>Synonyms</b> | T3G   |
| <b>Function</b> | Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR- mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD247/CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways (PubMed: <a href="#">2470098</a> ). In addition to this role of signal transduction in T- cell activation, CD3G plays an essential role in the dynamic regulation of TCR expression at the cell surface (PubMed: <a href="#">8187769</a> ). Indeed, constitutive TCR |

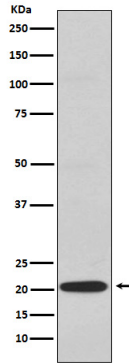
cycling is dependent on the di-leucine-based (diL) receptor-sorting motif present in CD3G.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Images**

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