

**CD3G Antibody**  
Rabbit mAb  
Catalog # AP91898

## Specification

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### CD3G Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">P09693</a>
Clonality	Monoclonal
<b>Other Names</b>	
CD3 gamma; CD3g; T3G;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	20469 Da

### CD3G Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human CD3G
Description	The CD3 complex mediates signal transduction.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### CD3G Antibody - Protein Information

**Name** CD3G

**Synonyms** T3G

#### Function

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 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: [2470098](http://www.uniprot.org/citations/2470098)). 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: [8187769](http://www.uniprot.org/citations/8187769)). Indeed, constitutive TCR cycling is dependent on the di-leucine-based (diL) receptor-sorting motif present in CD3G.

### Cellular Location

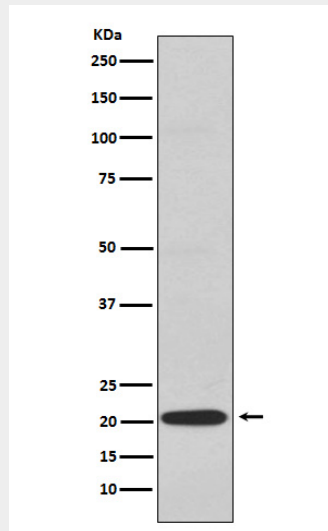
Cell membrane; Single-pass type I membrane protein

### CD3G Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CD3G Antibody - Images



Western blot analysis of CD3G expression in Jurkat cell lysate.