

## Anti-CD3G Rabbit Monoclonal Antibody Catalog # ABO15400

### Specification

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#### Anti-CD3G Rabbit Monoclonal Antibody - Product Information

|                   |                          |
|-------------------|--------------------------|
| Application       | WB, IHC, IF, ICC, IP, FC |
| Primary Accession | <a href="#">P09693</a>   |
| Host              | Rabbit                   |
| Isotype           | IgG                      |
| Reactivity        | Human, Mouse             |
| Clonality         | Monoclonal               |
| Format            | Liquid                   |

#### Description

Anti-CD3G Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse.

#### Anti-CD3G Rabbit Monoclonal Antibody - Additional Information

Gene ID 917

#### Other Names

T-cell surface glycoprotein CD3 gamma chain, T-cell receptor T3 gamma chain, CD3g, CD3G, T3G

#### Application Details

WB 1:1000-1:5000<br>IHC 1:100-1:500<br>ICC/IF 1:100-1:500<br>IP 1:50<br>FC 1:60

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human CD3G

#### Purification

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

#### Anti-CD3G Rabbit Monoclonal 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

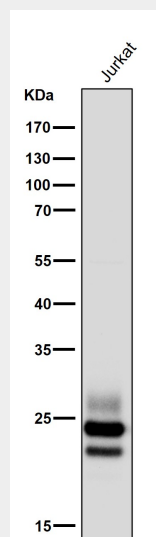
Cell membrane; Single-pass type I membrane protein

### Anti-CD3G Rabbit Monoclonal Antibody - Protocols

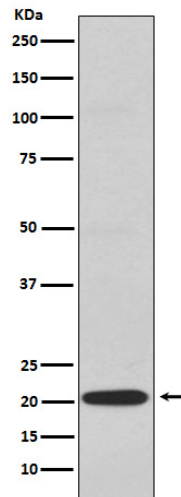
Provided below are standard protocols that you may find useful for product applications.

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

### Anti-CD3G Rabbit Monoclonal Antibody - Images



All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



Western blot analysis of CD3G expression in Jurkat cell lysate.