

**Goat Anti-CD3G Antibody (internal region)**  
**Purified Goat Polyclonal Antibody**  
**Catalog # AF4197a**

**Specification**

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**Goat Anti-CD3G Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P09693</a>
Other Accession	<a href="#">12502(mouse)</a> , <a href="#">300678(rat)</a> , <a href="#">NP_000064.1</a>
Reactivity	Human
Predicted	Human, Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	20469

**Goat Anti-CD3G Antibody (internal region) - Additional Information**

**Gene ID** 917

**Other Names**

CD3G; CD3g molecule, gamma (CD3-TCR complex); CD3-GAMMA; IMD17; T3G; CD3g antigen, gamma polypeptide (TiT3 complex); CD3g molecule, epsilon (CD3-TCR complex); T-cell antigen receptor complex, gamma subunit of T3; T-cell receptor T3 gamma chain; T-cell surface glycoprotein CD3 gamma chain

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

Peptide with sequence C-QDGVRQSRASDKQT, from the internal region of the protein sequence according to NP\_000064.1.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-CD3G Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-CD3G Antibody (internal region) - 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

### Goat Anti-CD3G Antibody (internal region) - 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](#)

### Goat Anti-CD3G Antibody (internal region) - Images



AF4197a (0.3 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-CD3G Antibody (internal region) - References

TCR-γ expression in primary cutaneous T-cell lymphomas. Rodríguez-Pinilla SM, Ortiz-Romero PL,

Monsalvez V, Tomás IE, Almagro M, Sevilla A, Camacho G, Longo MI, Pulpillo Á, Diaz-Pérez JA, Montes Moreno S, Castro Y, Echevarría B, Trébol I, Gonzalez C, Sánchez L, Otín AP, Requena L, Rodríguez-Peralto JL, Cerroni L, Piris MÁ. Am J Surg Pathol. 2013 Mar;37(3):375-84.