10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD3G Antibody

Rabbit mAb
Catalog # AP91898

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P09693
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	CD3 gamma; CD3g; T3G;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	20469

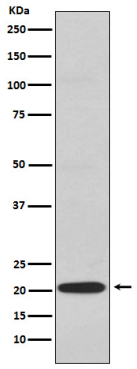
Additional Information

Dilution	WB 1:1000~1:5000 IHC 1:100~1:500 ICC/IF 1:100~1:500 IP 1:50 FC 1:60
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.

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 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: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). 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



Western blot analysis of CD3G expression in Jurkat cell lysate.

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