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Anti-CD3g Antibody

Catalog # AP95740

Product Information

Application	WB, FC
Primary Accession	P09693
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	20469

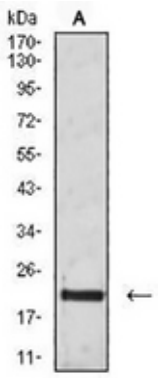
Additional Information

Gene ID	917
Other Names	T3G; T-cell surface glycoprotein CD3 gamma chain; T-cell receptor T3 gamma chain; CD3g
Target/Specificity	Recombinant fusion protein of human CD3g expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

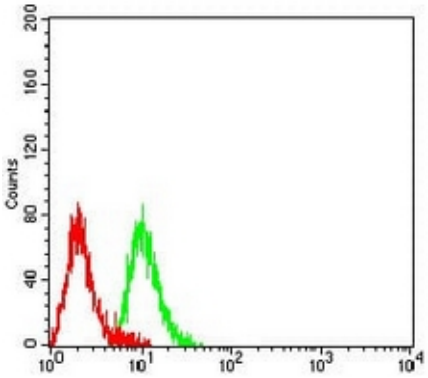
Protein Information

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 (A) whole cell lysates. (Predicted band size: 21 kD; Observed band size: 21 kD)



Flow cytometric analysis of Raji cells using Anti-CD3g Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.