

CD3 epsilon Rabbit mAb

Catalog No: #52202

Package Size: #52202-1 50ul #52202-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

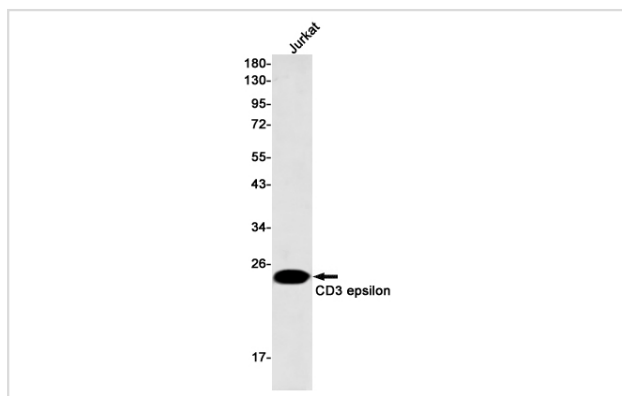
Description

Product Name	CD3 epsilon Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S02-1B5
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human CD3 epsilon
Conjugates	Unconjugated
Modification	Unmodification
Other Names	T3E; TCRE; IMD18
Accession No.	Swiss-Prot:P07766GenelD:916
Uniprot	P07766
GenelD	916
Calculated MW	Calculated MW: 23 kDa; Observed MW: 23 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

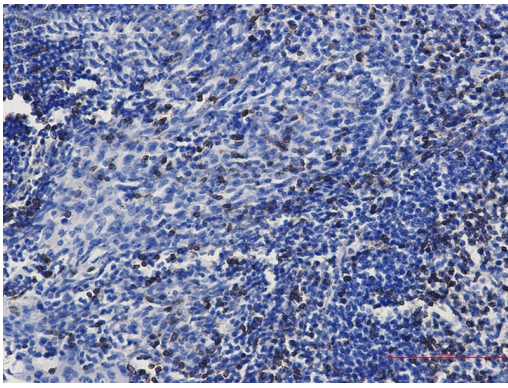
Application Details

WB: 1/1000-1/5000; IHC: 1/50-1/200;

Images



Western blot detection of CD3 epsilon in Jurkat cell lysates using CD3 epsilon Rabbit mAb(1:500 diluted). Predicted band size:23kDa.Observed band size:23kDa.



Immunohistochemistry of CD3 epsilon in paraffin-embedded Human tonsil using CD3 epsilon Rabbit mAb at dilution 1/50

Background

Swiss-Prot Acc.P07766. 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). In addition of this role of signal transduction in T-cell activation, CD3E plays an essential role in correct T-cell development. Initiates the TCR-CD3 complex assembly by forming the two heterodimers CD3D/CD3E and CD3G/CD3E. Participates also in internalization and cell surface down-regulation of TCR-CD3 complexes via endocytosis sequences present in CD3E cytosolic region (PubMed:10384095, PubMed:26507128).

Note: This product is for in vitro research use only