

CD3 epsilon Rabbit mAb

Catalog No: #48775



Package Size: #48775-1 50ul #48775-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

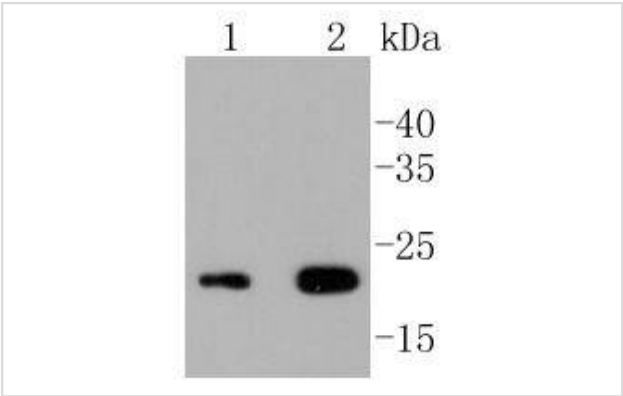
Description

Product Name	CD3 epsilon Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY0239
Purification	ProA affinity purified
Applications	WB, IHC, IP, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CD3 epsilon antibody CD3e antibody CD3e antigen epsilon polypeptide (TiT3 complex) antibody CD3E antigen epsilon polypeptide antibody CD3E antigen, epsilon subunit antibody CD3e molecule epsilon antibody CD3e molecule, epsilon (CD3 TCR complex) antibody CD3e molecule, epsilon (CD3-TCR complex) antibody CD3E_HUMAN antibody IMD18 antibody T cell antigen receptor complex epsilon subunit of T3 antibody T cell surface antigen T3/Leu 4 epsilon chain antibody T cell surface glycoprotein CD3 epsilon chain antibody T-cell surface antigen T3/Leu-4 epsilon chain antibody T-cell surface glycoprotein CD3 epsilon chain antibody T3E antibody TCRE antibody
Accession No.	Swiss-Prot#:P07766
Calculated MW	23 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

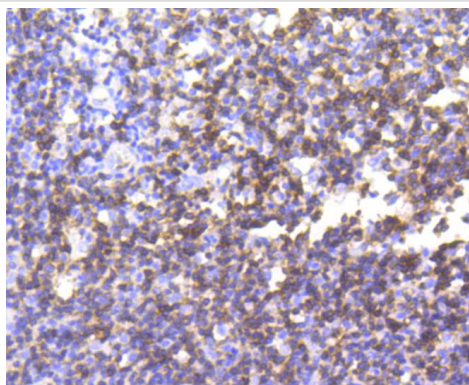
Application Details

WB: 1:1,000-1:2,000 IHC:1:50-1:200 FC: 1:50-1:100

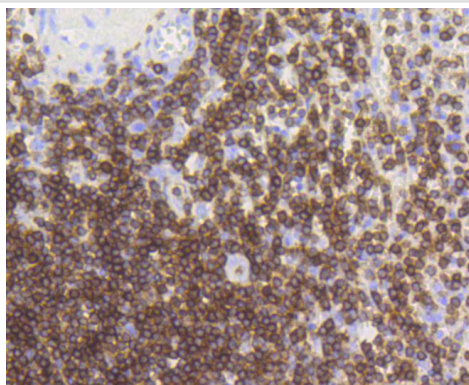
Images



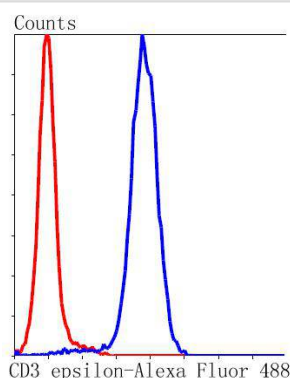
Western blot analysis of CD3 epsilon on different lysates using anti-CD3 epsilon antibody at 1/1,000 dilution. Positive control: Lane 1: Jurkat Lane 2: Human thymus



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD3 epsilon antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-CD3 epsilon antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Jurkat cells with CD3 epsilon antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. Much of this signaling process can be attributed to a multisubunit complex of proteins that associates directly with the TCR. This complex has been designated CD3 (cluster of differentiation 3). CD3 is composed of four polypeptides: ζ , γ , ϵ and δ . Each of these polypeptides contains at least one immunoreceptor tyrosine-based activation motif (ITAM). Engagement of TCR complex with foreign antigens induces tyrosine phosphorylation in the ITAM motifs and phosphorylated ITAMs function as docking sites for signaling molecules such as ZAP-70 and p85 subunit of PI-3 kinase. TCR ligation also induces a conformational change in CD3 ϵ , such that a proline region is exposed and then associates with the adaptor protein Nck.

References

1. Huang YH et al. CEACAM1 regulates TIM-3-mediated tolerance and exhaustion. *Nature* 517:386-90 (2015).
2. Berglin L et al. In situ characterization of intrahepatic non-parenchymal cells in PSC reveals phenotypic patterns associated with disease severity. *PLoS One* 9:e105375 (2014).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.