Data Sheet (Cat.No.TMAB-00352)

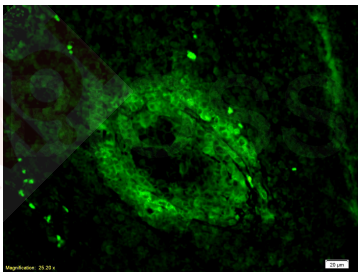
Anti-CD3 epsilon/CD3e Polyclonal Antibody 2

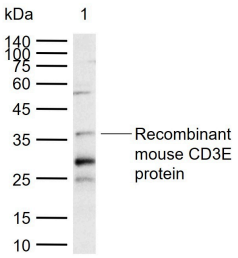
Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat)
Molecular Weight:	Theoretical: 20 kDa. Actual: 36 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: mouse lymphoma tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37℃ for 20 min; Incubation: Anti-CD3 Polyclonal Antibody, Unconjugated (TMAB-00352) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated used at 1:200 dilution for 40 minutes at 37℃. 2. Sample: Lane 1: Recombinant mouse CD3E protein, C-mFc (HEK293) Primary: Anti-CD3E (TMAB-00352) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 20 kDa Observed band size: 36 kDa





Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: mouse CD3E
Antigen Species:	Mouse
Gene ID:	12501
Uniprot ID:	P22646
Synonyms:	T-cell surface glycoprotein CD3 epsilon chain;T-cell surface antigen T3/Leu-4 epsilon chain; CD3e
Biology Area:	Regulatory T Cells,CD,cd3,Human Lineage Negative

Research Background

CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.