A1753

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CD3E Rabbit pAb

Catalog No.: A1753 **8 Publications**

Basic Information

Observed MW
23kDa

Calculated MW
23kDa

Category
Polyclonal Antibody

Applications
WB,IHC-P,IF/ICC,IP,FC,ELISA

Cross-Reactivity
Human,Mouse,Rat

Background

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -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. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

Immunogen Information

Gene ID
916

Swiss Prot
P07766

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-126 of human CD3E (NP_000724.1).

Synonyms
T3E; TCRE; IMD18; CD3epsilon; CD3E

Contact

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Product Information

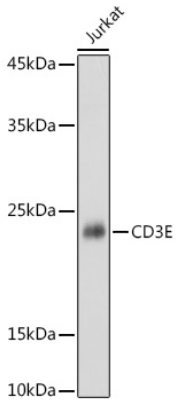
Source
Rabbit

Isotype
IgG

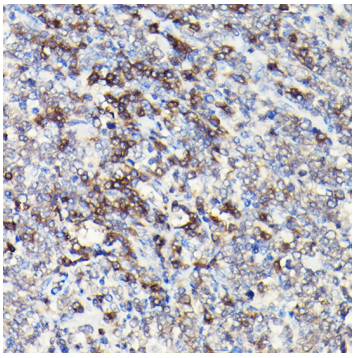
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

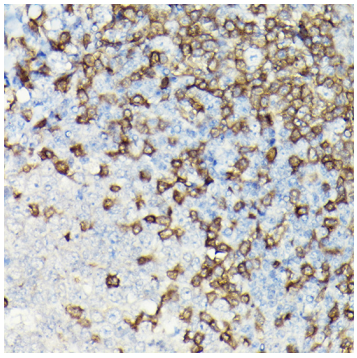
Validation Data



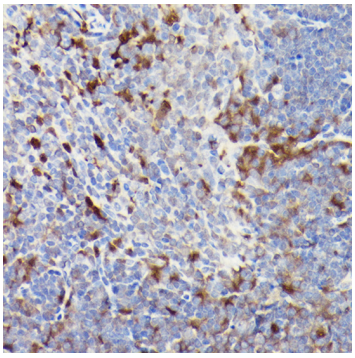
Western blot analysis of lysates from Jurkat cells, using CD3E Rabbit pAb (A1753) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



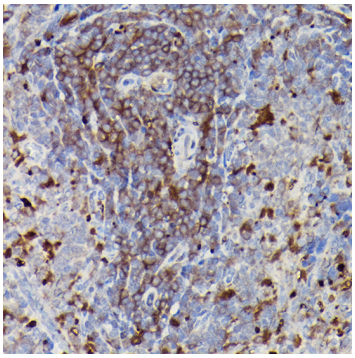
Immunohistochemistry analysis of CD3E in paraffin-embedded human extranodal NK-T cell lymphoma using CD3E Rabbit pAb (A1753) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



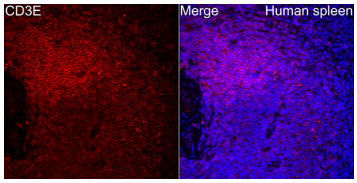
Immunohistochemistry analysis of CD3E in paraffin-embedded human tonsil using CD3E Rabbit pAb (A1753) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



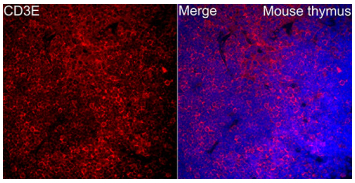
Immunohistochemistry analysis of CD3E in paraffin-embedded mouse spleen using CD3E Rabbit pAb (A1753) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of CD3E in paraffin-embedded rat spleen using CD3E Rabbit pAb (A1753) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

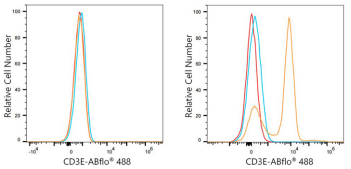


Immunofluorescence analysis of paraffin-embedded Human spleen tissue using CD3E Rabbit pAb (A1753) at a dilution of 1:100 (40x lens). Secondary antibody:Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

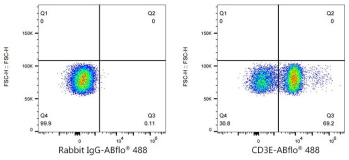


Immunofluorescence analysis of paraffin-embedded Mouse thyums tissue using CD3E Rabbit pAb(A1753) at a dilution of 1:100 (40x lens). Secondary antibody:Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

Validation Data



Flow cytometry: 1X10^6 Raji cells (negative control,left) and Human PBMC (right) were surface-stained with CD3E Rabbit pAb (A1753,2 µg/mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by FITC conjugated goat anti-Rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 Human PBMC were surface-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or CD3E Rabbit pAb (A1753,2 µg/mL,right), followed by FITC conjugated goat anti-Rabbit pAb staining.