A19017

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CD3E Rabbit mAb

Catalog No.: A19017 Recombinant 9 Publications

Basic Information

Observed MW
23kDa

Calculated MW
23kDa

Category
SMab Recombinant Monoclonal Antibody

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

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC51750

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	1:10000 - 1:60000
IHC-P	1:1000 - 1:5000
IF/ICC	1:200-1:800
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
916

Swiss Prot
P07766

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 50-150 of human CD3E (NP_000724.1).

Synonyms
T3E; TCRE; IMD18; CD3epsilon; CD3E

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Contact

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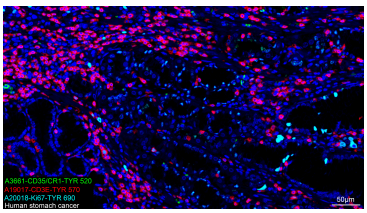
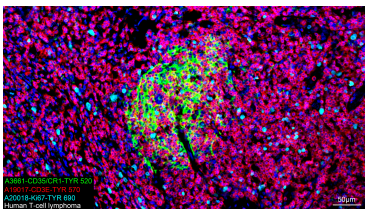
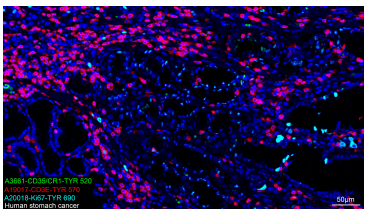
Validation Data



The multiplex IHC analysis on paraffin-embedded Human stomach cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD35/CR1 Rabbit mAb (A3661, 1:100) with TSA-TYR-520 (Green), CD3E Rabbit mAb (A19017, 1:2000) with TSA-TYR-570 (Red), and Ki67 Rabbit mAb (A20018, 1:500) with TSA-TYR-690 (cyan). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.



The multiplex IHC analysis on paraffin-embedded Human T-cell lymphoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD35/CR1 Rabbit mAb (A3661, 1:100) with TSA-TYR-520 (Green), CD3E Rabbit mAb (A19017, 1:2000) with TSA-TYR-570 (Red), and Ki67 Rabbit mAb (A20018, 1:500) with TSA-TYR-690 (cyan). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.



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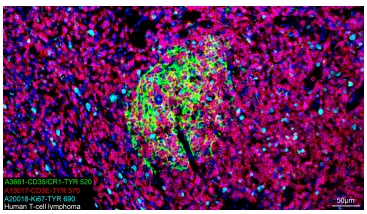

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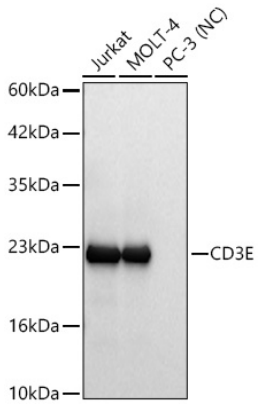
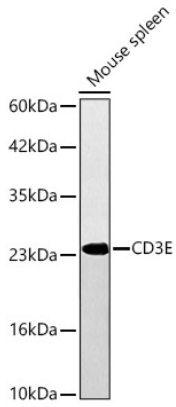
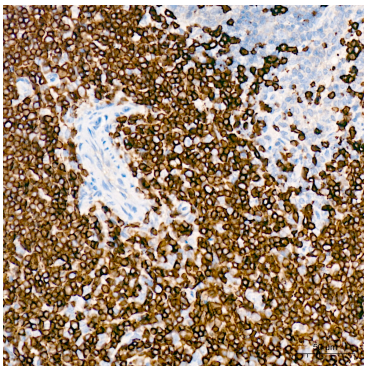
Validation Data



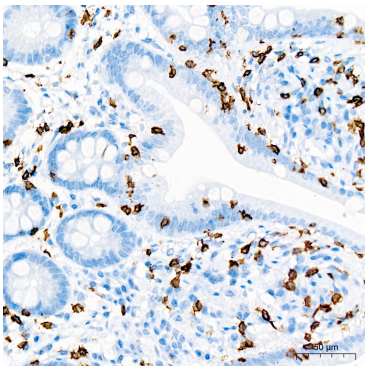
Western blot analysis of various lysates using CD3E Rabbit mAb (A19017) at 1:10000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): PC-3
Exposure time: 5s.



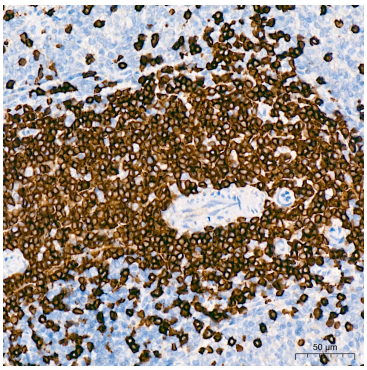
Western blot analysis of lysates from Mouse spleen using CD3E Rabbit mAb (A19017) at 1:10000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using CD3E Rabbit mAb (A19017) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

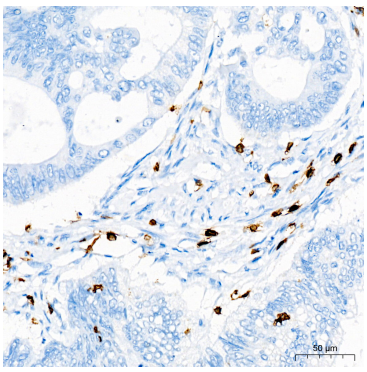


Immunohistochemistry analysis of paraffin-embedded Human small intestine tissue using CD3E Rabbit mAb (A19017) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

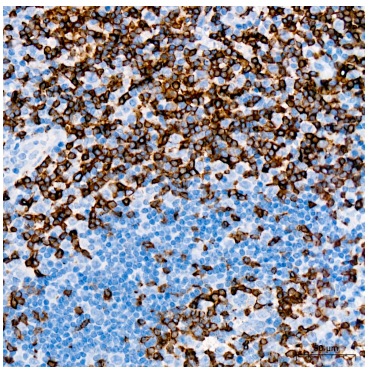


Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using CD3E Rabbit mAb (A19017) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

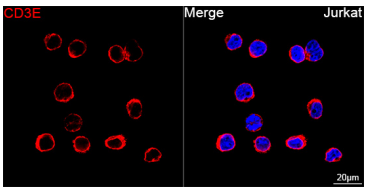
Validation Data



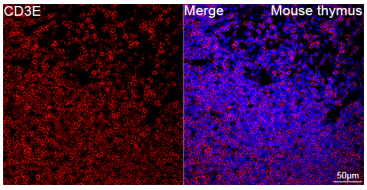
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using CD3E Rabbit mAb (A19017) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



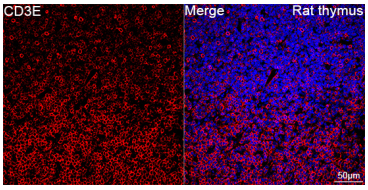
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD3E Rabbit mAb (A19017) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of Jurkat cells using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of paraffin-embedded Mouse thymus tissue using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat thymus tissue using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.