

CD3E Rabbit mAb

Catalog No.: A19017

Recombinant

18 Publications

Basic Information

Observed MW

23 kDa

Calculated MW

23 kDa

Category

Primary antibody

Applications

WB, Auto WB, IF/ICC, IF-F, IF-P, IHC-P, mIHC, 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

Auto WB 1:100 - 1:500

IF/ICC 1:200-1:800

IF-F 1:200 - 1:800

IF-P 1:200 - 1:800

IHC-P 1:1000 - 1:5000

mIHC 1:1000 - 1:5000

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

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

T3E; TCRE; IMD18; CD3epsilon; CD3E

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C

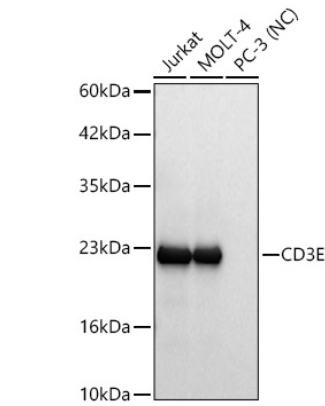
Contact

☎ | 400-999-6126

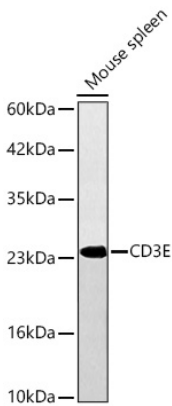
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

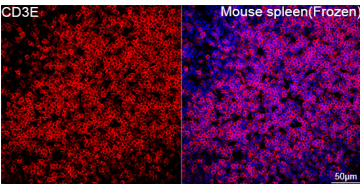
Validation Data



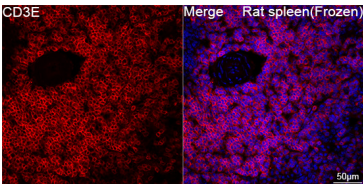
Western blot analysis of various lysates using CD3E Rabbit mAb (A19017) at 1:10000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: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



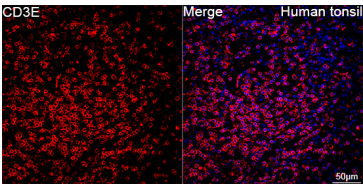
Western blot analysis of lysates from Mouse spleen using CD3E Rabbit mAb (A19017) at 1:10000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: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



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

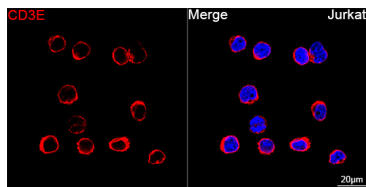


Confocal imaging of frozen sections of Rat spleen tissue using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with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

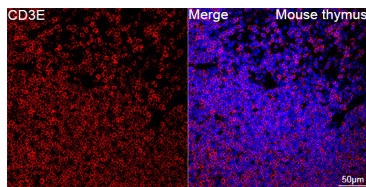


Confocal imaging of paraffin-embedded Human tonsil using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M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

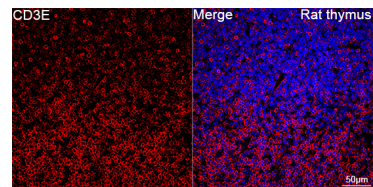
Validation Data



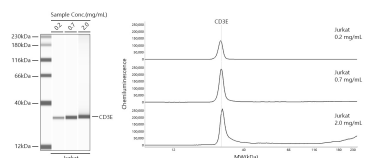
Confocal imaging of Jurkat cells using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



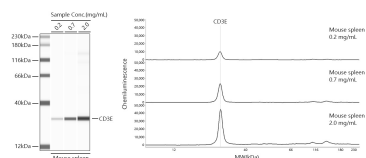
Confocal imaging of paraffin-embedded Mouse thymus tissue using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M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



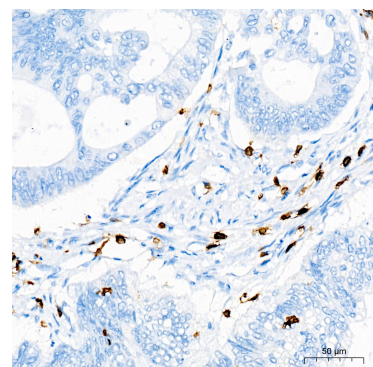
Confocal imaging of paraffin-embedded Rat thymus tissue using CD3E Rabbit mAb (A19017, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate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



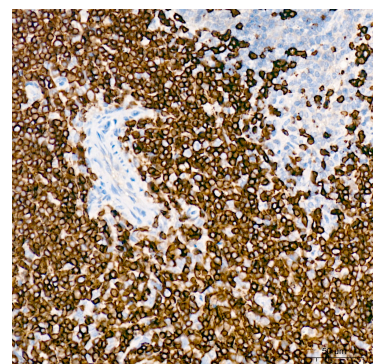
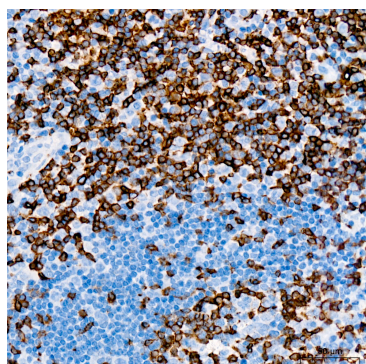
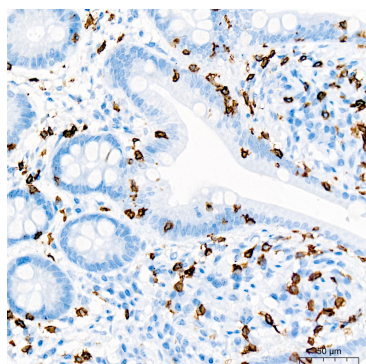
Simple Western™ analysis of lysates from Jurkat cells using CD3E Rabbit mAb (A19017) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.



Simple Western™ analysis of lysates from Mouse spleen using CD3E Rabbit mAb (A19017) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.

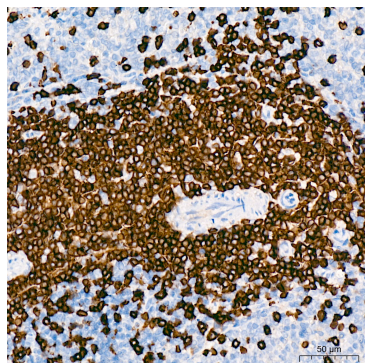


Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using CD3E Rabbit mAb (A19017) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

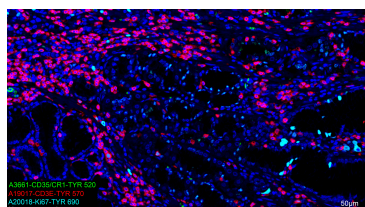


Validation Data

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.

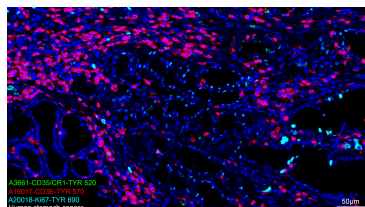


Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using CD3E Rabbit mAb (A19017) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

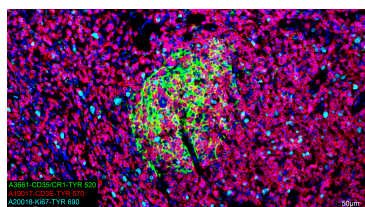


The multiplex IHC analysis on paraffin-embedded Human stomach cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD35/CR1 Rabbit mAb (A3661, 1:100) with TSA-TYR-520 (Green), CD3E Rabbit mAb (A19017, 1:2000) with TSA-TYR-570 (Red), 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.

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.

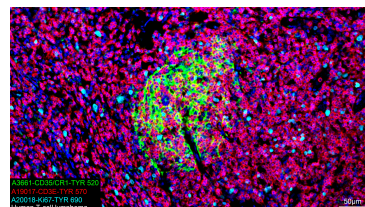


The multiplex IHC analysis on paraffin-embedded Human stomach cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD35/CR1 Rabbit mAb (A3661, 1:100) with TSA-TYR-520 (Green), CD3E Rabbit mAb (A19017, 1:2000) with TSA-TYR-570 (Red), 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.

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.



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.