

# CD3 Rabbit mAb

Catalog No.: A26443 **Recombinant** **1 Publications**

## Basic Information

### Observed MW

23 kDa

### Calculated MW

23 kDa

### Category

Primary antibody

### Applications

WB,Auto WB,IF-P,IHC-P,FC,ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC68274

## 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

**Auto WB** 1:100 - 1:500

**IF-P** 1:50 - 1:200

**IHC-P** 1:500 - 1:2000

**FC** 1:100 - 1:500

**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

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

T3E; TCRE; IMD18; CD3epsilon

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

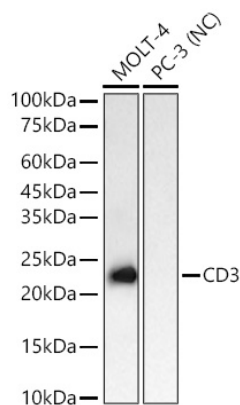
## Contact

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## Validation Data



Western blot analysis of various lysates using CD3 Rabbit mAb (A26443) at 1:1000 dilution incubated overnight at 4°C.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

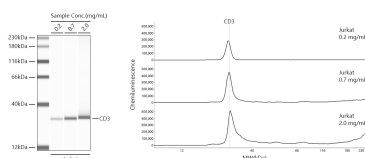
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

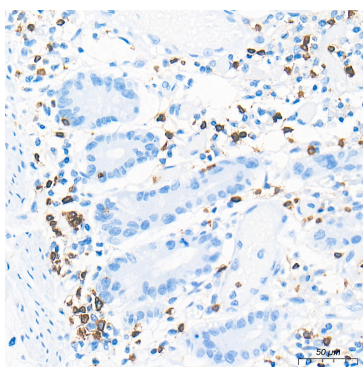
Detection: ECL Basic Kit (RM00020).

Negative control (NC): PC-3

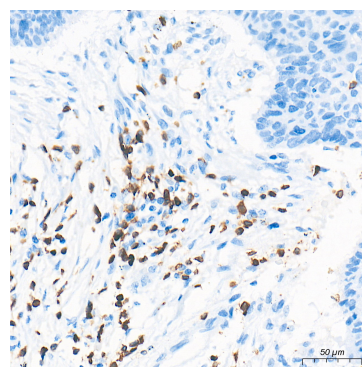
Exposure time: 10s.



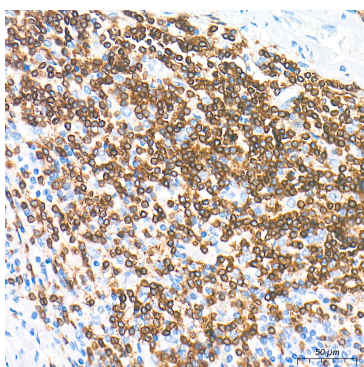
Simple Western™ analysis of lysates from Jurkat cells using CD3 Rabbit mAb (A26443) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence 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.



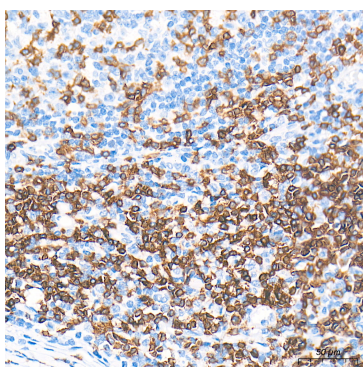
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using CD3 Rabbit mAb (A26443) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



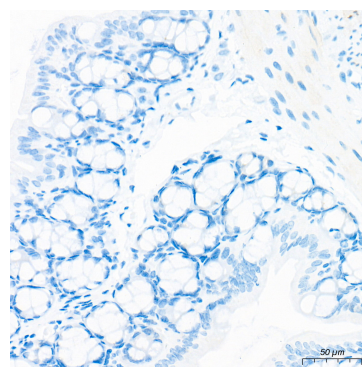
Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using CD3 Rabbit mAb (A26443) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using CD3 Rabbit mAb (A26443) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



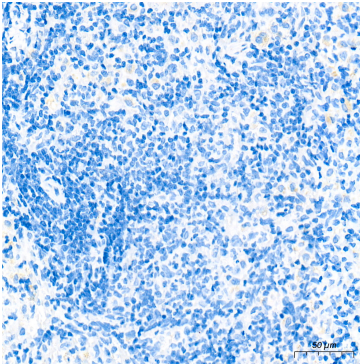
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD3 Rabbit mAb (A26443) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



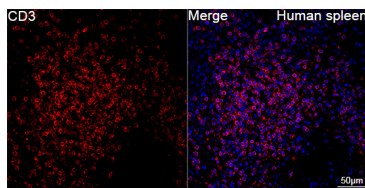
Immunohistochemistry analysis of paraffin-embedded Mouse intestine [negative] tissue using CD3 Rabbit mAb (A26443) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

## Validation Data

9.0) prior to IHC staining.

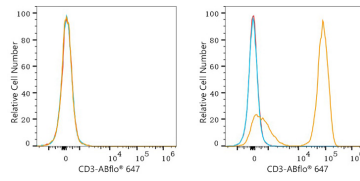


Immunohistochemistry analysis of paraffin-embedded Mouse spleen (negative) tissue using CD3 Rabbit mAb (A26443) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

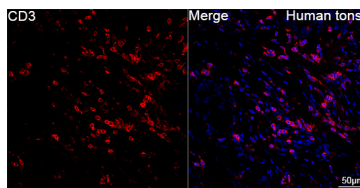


Confocal imaging of paraffin-embedded Human spleen tissue using CD3 Rabbit mAb (A26443, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

9.0) prior to IHC staining.

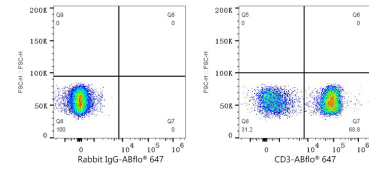


Flow cytometry:  $1 \times 10^6$  Raji cells (negative control, left) and Human PBMC (right) were surface-stained with CD3 Rabbit mAb (A26443, 2  $\mu\text{g}/\text{mL}$ , orange line) or Rabbit IgG isotype control (AC042, 2  $\mu\text{g}/\text{mL}$ , blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Confocal imaging of paraffin-embedded Human tonsil tissue using CD3 Rabbit mAb (A26443, 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.

Buffer (pH 9.0) prior to IHC staining.



Flow cytometry:  $1 \times 10^6$  Human PBMC were surface-stained with Rabbit IgG isotype control (AC042, 2  $\mu\text{g}/\text{mL}$ , left) or CD3 Rabbit mAb (A26443, 2  $\mu\text{g}/\text{mL}$ , right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.