bsm-60002R **[Primary Antibody]**

CD3E Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: E9C3
GeneID: 916
SWISS: P07766
Target: CD3E
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

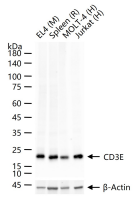
Applications: **WB** (1:1000-2000)
IHC-P (1:500-1000)
IHC-F (1:500-1000)
IF (1:500-1000)

Reactivity: Human, Mouse, Rat

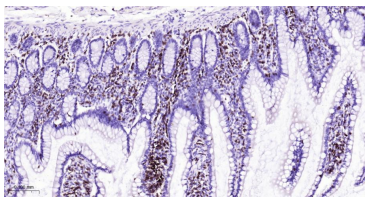
Predicted MW.: 20 kDa

Subcellular Location: Cell membrane

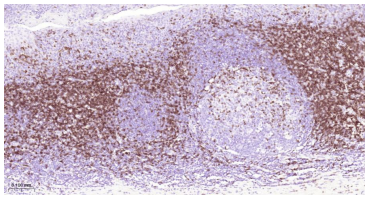
VALIDATION IMAGES



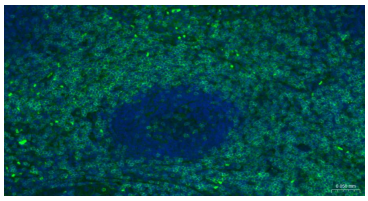
25 ug total protein per lane of various lysates (see on figure) probed with CD3E monoclonal antibody, unconjugated (bsm-60002R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD3E Monoclonal Antibody, Unconjugated (bsm-60002R) at 1:1000 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD3E Monoclonal Antibody, Unconjugated (bsm-60002R) at 1:1000 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD3E Monoclonal Antibody, Unconjugated (bsm-60002R) at 1:200

overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-0295G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=9.5]** Cong Wang. et al. Potential role of liver resident CD3+ macrophages in HBV clearance in a mouse hepatitis B model. JHEP Reports. 2024 Dec;:101323 mIHC ;Mouse. 10.1016/j.jhepr.2024.101323
- **[IF=9.5]** Cong Wang. et al.Potential role of liver-resident CD3+ macrophages in HBV clearance in a mouse hepatitis B model..JHEP Reports.2024 Dec 31;7(4):101323. mIHC ;Mouse. 40143948