

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

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CD3E Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Clonality:** Recombinant**GeneID:** 916**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.

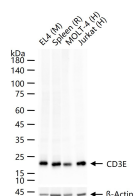
Background: CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, 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.

Isotype: IgG**CloneNo.:** E9C3**SWISS:** P07766**Applications:** WB (1:1000-5000)**IHC-P** (1:500-2000)**IHC-F** (1:500-2000)**IF** (1:500-2000)**Reactivity:** Human, Mouse, Rat

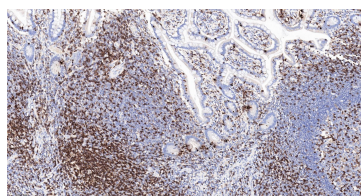
Predicted
MW.: 20 kDa

Observed
MW.: 22 kDa

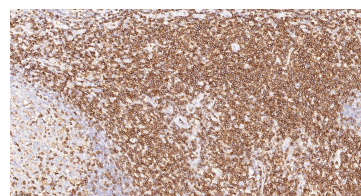
Subcellular
Location: Cell membrane

— VALIDATION IMAGES —

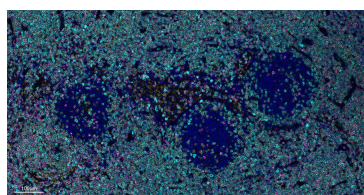
25 ug total protein per lane of various lysates (see on figure) probed with CD3E monoclonal antibody, unconjugated (bsm-60002R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



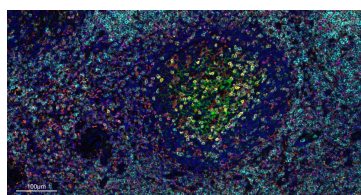
Paraformaldehyde-fixed, paraffin embedded Human small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD3E Monoclonal Antibody, Unconjugated (bsm-60002R) at 1:500 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (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 1:500 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human lymph nodes. Merged staining of anti-CD8A (bsm-34251M; 1:200; pink) anti-CD4 (bsm-52469R; 1:200; yellow) and anti-CD3E (bsm-60002R; 1:200; light blue) DAPI (dark blue)



Paraformaldehyde-fixed, paraffin embedded Human Tonsil. Merged staining of anti-CD8A (bsm-34251M; 1:200; pink) anti-CD4 (bsm-52469R; 1:200; light blue) anti-CD3E (bsm-60002R; 1:200; green) anti-CD68

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

was used as a nuclear counter stain.

(bsm-60634R; 1:200; white) anti-CD11c
(bsm-61135R; 1:200; orange) and anti-CD20
(bsm-63327R; 1:200; yellow) DAPI (dark blue)
was used as a nuclear counter stain.

— 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