bsm-52386R **[Primary Antibody]**

CD3 epsilon Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 7A4
GeneID: 916
SWISS: P07766
Target: CD3 epsilon
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.

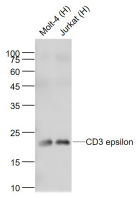
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)

Reactivity: Human

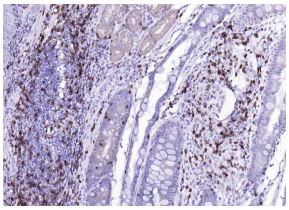
Predicted MW.: 20 kDa

Subcellular Location: Cell membrane

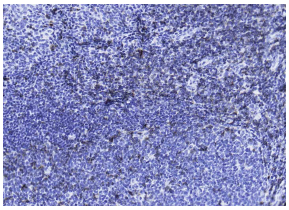
VALIDATION IMAGES



Sample: Lane 1: Molt-4 (Human) Cell Lysate at 30 ug Lane 2: Jurkat (Human) Cell Lysate at 30 ug Primary: Anti-CD3 epsilon (bsm-52386R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 23 kD Observed band size: 23 kD



Paraformaldehyde-fixed, paraffin embedded (Human gastric cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD3 epsilon) Monoclonal Antibody, Unconjugated (bsm-52386R) at 1:50 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD3 epsilon) Monoclonal Antibody, Unconjugated (bsm-52386R) at 1:50 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=8.5]** Ha Rim Yang. et al. Development of a novel CD3ε-specific human antibody for selective modulation of T cell activation. INT J BIOL MACROMOL. 2025 Aug;320:145859 WB,FC ;Human. 40639512
- **[IF=3.549]** Jingjing Li. et al. Circular RNA hsa_circ_0068252 functions in cisplatin resistance and immune response via miR-1304-5p/PD-L1 axis in non-small cell lung cancer. CHEMOTHERAPY. ;: Other ;Human. 35649347

- **[IF=3.098]** Junli Zhang. et al. KCNQ1OT1 contributes to sorafenib resistance and programmed death-ligand-1-mediated immune escape via sponging miR-506 in hepatocellular carcinoma cells. Int J Mol Med. 2020 Nov;46(5):1794-1804 ELISA ;Human. 33000204