bs-0765R **[Primary Antibody]**

CD3E Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 12501 **SWISS:** P22646

Target: CD3E

Immunogen: KLH conjugated synthetic peptide derived from mouse CD3E: 101-189/189. < Cytoplasmic >

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.

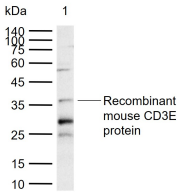
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Human, Rat)

Predicted MW.: 20 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Recombinant mouse CD3E protein, C-mFc (HEK293)(bs-43509P) Primary: Anti-CD3E (bs-0765R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 20 kDa Observed band size: 36 kDa

SELECTED CITATIONS

- **[IF=10.2]** Jiannan Zhou. et al. Macrophage-Related Immune Responses to Polyetherketoneketone Bone Implants: Single-Cell Transcriptome Analysis. MATER TODAY BIO. 2025 Aug;:102257 IF ;Rat. 10.1016/j.mtbio.2025.102257
- **[IF=5.116]** E Xiang. et al. Human umbilical cord-derived mesenchymal stem cells prevent the progression of early diabetic nephropathy through inhibiting inflammation and fibrosis. Stem Cell Res Ther. 2020 Dec;11(1):1-14 IF ;Rat. 32746936
- **[IF=3.776]** Jia-qi Yuan. et al. S100A9 promotes glycolytic activity in HER2-positive breast cancer to induce

immunosuppression in the tumour microenvironment. HELIYON. 2023 Feb;9:e13294 IHC ;Human. 36755606

- **[IF=3.06]** Li T et al. Withanolides, extracted from Datura metel L. inhibit keratinocyte proliferation and imiquimod-induced psoriasis-like dermatitis via the STAT3/P38/ERK1/2 pathway. Molecules. 2019 Jul 17;24(14). pii: E2596. WB ;Mouse. 31319488
- **[IF=2.705]** Park M et al. Lymphatic endothelial cells promote T lymphocyte migration into lymph nodes under hyperlipidemic conditions. Biochem Biophys Res Commun. 2020 May 7;525(3):786-792. IF ;mouse. 32147097