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## CD3E Rabbit pAb

Catalog Number: bs-0765R

Target Protein: CD3E

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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

Reactivity: Human, Mouse (predicted:Rat, MACFA)

Predicted MW: 20 kDa

Detected MW: 23-26 kDa

Entrez Gene: 12501

Swiss Prot: P22646

Source: KLH conjugated synthetic peptide derived from mouse CD3E: 101-189/189.

Purification: affinity purified by Protein A

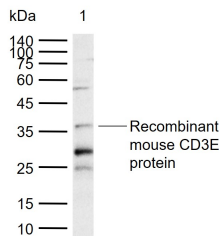
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

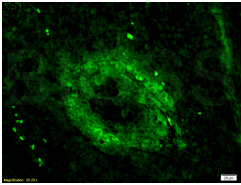
**Background:** CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta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

### VALIDATION IMAGES

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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



Tissue/cell: mouse lymphoma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-CD3 Polyclonal Antibody, Unconjugated (bs-0765R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated (bs-0295G-FITC) used at 1:200 dilution for 40 minutes at 37°C.

## PRODUCT SPECIFIC PUBLICATIONS

- [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. *HELIVON.* 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
- [IF=2.348] Becher et al. Assessment of cardiac inflammation and remodeling during the development of streptozotocin-induced diabetic cardiomyopathy in vivo: a time course analysis. (2013) *Int.J.Mol.Me.* 32:158-64 IHC ; Rat . 23652584