bs-10498R **[Primary Antibody]**

CD3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: CD3

Immunogen: KLH conjugated synthetic peptide derived from pig CD3: 11-100/196. < Extracellular >

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.

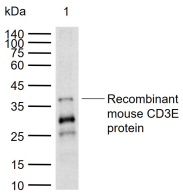
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Pig)

Predicted MW.: 20 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Recombinant mouse CD3E protein, C-mFc (HEK293)(bs-43509P) Primary: Anti-CD3 (bs-10498R) 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=10.334]** Qihang Hou. et al. Dietary genistein increases microbiota-derived short chain fatty acid levels, modulates homeostasis of the aging gut, and extends healthspan and lifespan. PHARMACOL RES. 2023 Feb;188:106676 FCM ;Mouse. 36693599
- **[IF=8]** Ke Wang. et al. Combined Placental Mesenchymal Stem Cells with Guided Nanoparticles Effective Against Diabetic Nephropathy in Mouse Model. INT J NANOMED. 2024 Jan 25 IF ;Mouse. 38293609
- **[IF=6.7]** Wu Haoshuang. et al. A strategy for mechanically integrating robust Hydrogel-Tissue hybrid to promote the

anti-calcification and endothelialization of bioprosthetic heart valve. REGEN BIOMATER. 2024 Jan;: IHC ;Pig. 10.1093/rb/rbae003

- **[IF=4.52]** Takeuchi, Hiroki, et al. "Temporal Changes in Cellular Repopulation and Collagen Fibril Remodeling and Regeneration After Allograft Anterior Cruciate Ligament Reconstruction An Experimental Study Using Kusabira-Orange Transgenic Pigs." The American Journal of Sports Medicine (2016): 0363546516650881. IHC ;="Pig". 27329998
- **[IF=4.6]** Ke Minhui. et al. Establishment and study of a rat internal haemorrhoid model. SCI REP-UK. 2023 Dec;13(1):1-10 IHC ;Rat. 38049459