

bs-0522R**[Primary Antibody]****CD45 Rabbit pAb****Bioss**
ANTIBODIES

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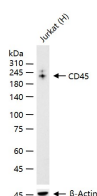
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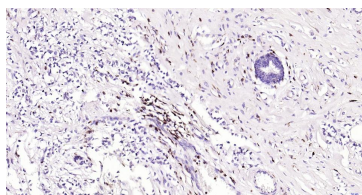
400-901-9800

— DATASHEET —

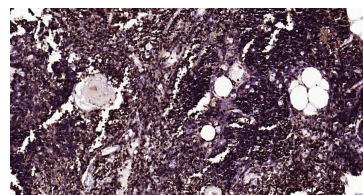
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-800)
GeneID: 5788	SWISS: P08575	IHC-F (1:100-800)
Target: CD45		IF (1:100-800)
		ICC/IF (1:50-200)
Immunogen: KLH conjugated synthetic peptide derived from human CD45: 1210-1304/1304. < Cytoplasmic >		Reactivity: Human
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.		Predicted MW.: 143 kDa
Background: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling		Subcellular Location: Cell membrane

— VALIDATION IMAGES —

25 ug total protein per lane of various lysates (see on figure) probed with CD45 polyclonal antibody, unconjugated (bs-0522R) 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 Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD45 Polyclonal Antibody, Unconjugated (bs-0522R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Thymus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD45 Polyclonal Antibody, Unconjugated (bs-0522R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=9.776]** Ruijing Zhao. et al. Inhalation of MSC-EVs is a noninvasive strategy for ameliorating acute lung injury. J Control Release. 2022 May;345:214 FCM ;Human. 35307508
- **[IF=8.7]** Tzu-Hsiang Lin. et al. A bioactive composite scaffold enhances osteochondral repair by using thermosensitive chitosan hydrogel and endothelial lineage cell-derived chondrogenic cell. MATER TODAY BIO. 2024 Oct;28:101174 FCM ;Rabbit. 39211289
- **[IF=8.7]** Xin Chen. et al. Decellularized adipose matrix hydrogel-based in situ delivery of antagomiR-150-5p for rat

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

abdominal aortic aneurysm therapy. materials today bio. 2024 Nov 20;29:101350. IHC ;Rat. 39677522

- **[IF=6.6]** Hsueh-Chun Wang. et al. Restoring Osteochondral Defects through the Differentiation Potential of Cartilage Stem/Progenitor Cells Cultivated on Porous Scaffolds. Cells-Basel. 2021 Dec;10(12):3536 FCM ;Human. 34944042
- **[IF=7.1]** Shuangjie Zhu. et al. Dihydroartemisinin inhibits the development of autoimmune thyroiditis by modulating oxidative stress and immune imbalance. free radical biology and medicine. 2025 Feb 21;231:57-67. IF ;Mouse. 39988064