
CD45 Rabbit pAb

Catalog Number: bs-4819R

Target Protein: CD45

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: Flow-Cyt (1µg/Test)

Reactivity: Human (predicted:Mouse, Rat)

Predicted MW: 137 kDa

Entrez Gene: 24699

Swiss Prot: P04157

Source: KLH conjugated synthetic peptide derived from rat CD45/B220: 501-600/1273.

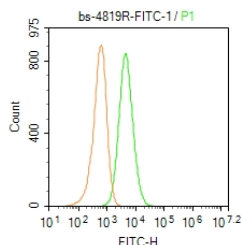
Purification: affinity purified by Protein A

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

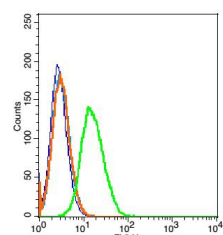
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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

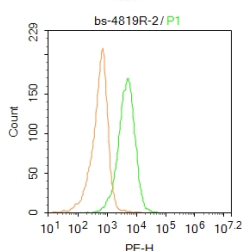
VALIDATION IMAGES



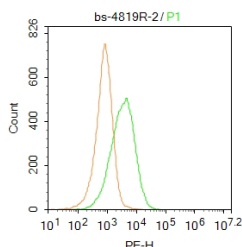
Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-CD45/PTPRC/FITC Conjugated antibody (bs-4819R-FITC) Dilution: 1 μ g /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG-FITC . Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1% PBST for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. The cells were stained with Primary Antibody for 30 min at room temperature. Acquisition of 20,000 events was performed.



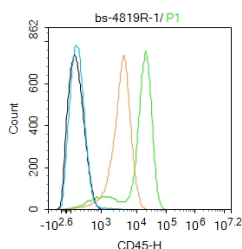
Blank control: Raji (blue). Primary Antibody: Rabbit Anti-CD45 antibody (bs-4819R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.



Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-CD45 antibody (bs-4819R) Dilution: 2 μ g /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1 μ g /test. Protocol The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: Jurkat. Primary Antibody (green line): Rabbit Anti-CD45 antibody (bs-4819R) Dilution: 2 μ g /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1 μ g /test. Protocol The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: U937. Primary Antibody (green line): Rabbit Anti-CD45 antibody (bs-4819R) Dilution: 1 μ g/Test; Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 0.5 μ g/Test. Protocol The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=10.6] Yu Chenghao. et al. GelMA hydrogels reinforced by PCL@GelMA nanofibers and bioactive glass induce bone regeneration in critical size cranial defects. J NANOBIO TECHNOLOG. 2024 Dec;22(1):1-19 FC ; Rat . 39529025

[IF=10.2] Li Ruiqi. et al. Double-layered N-S1 protein nanoparticle immunization elicits robust cellular immune and broad antibody responses against SARS-CoV-2. J NANOBIO TECHNOLOG. 2024 Dec;22(1):1-25 IF ; MOUSE . 38291444

[IF=9.304] Li, Jun. et al. Genetically engineered mesenchymal stem cells with dopamine synthesis for Parkinson' s disease in animal models. NPJ PARKINSONS DIS. 2022 Dec;8(1):1-15 IF ; Rat . 36550118

[IF=8.7] Xin Chen. et al. Decellularized adipose matrix hydrogel-based in situ delivery of antagomiR150-5p for rat abdominal aortic aneurysm therapy. MATER TODAY BIO. 2024 Nov;;101350 IHC ; Rat . 39677522

[IF=7.7] Seyedeh Parnian Banikarimi. et al. Cardiac tissue regeneration by microfluidic generated cardiac cell-laden calcium alginate microgels and mesenchymal stem cell extracted exosomes on myocardial infarction model. INT J BIOL MACROMOL. 2025 Mar;292:139247 FC ; Human . 39733869