bs-0805R **[Primary Antibody]**

CD56 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4684 **SWISS:** P13591

Target: CD56

Immunogen: KLH conjugated synthetic peptide derived from human CD56: 621-720/858. < 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: This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein has been shown to be involved in development of the nervous system, and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2011]

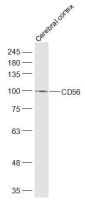
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, GuineaPig, Horse)

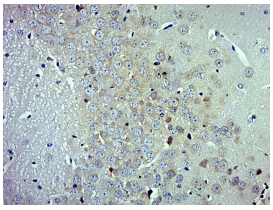
Predicted MW.: 92 kDa

Subcellular Location: Secreted ,Cell membrane

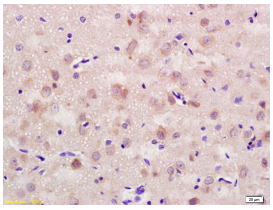
VALIDATION IMAGES



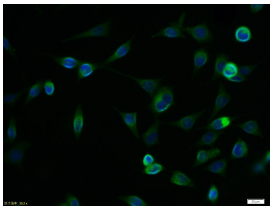
Sample: Cerebral cortex (Mouse) Lysate at 40 ug
Primary: Anti-CD56 (bs-0805R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 92 kD
Observed band size: 95 kD



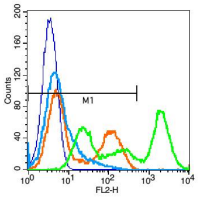
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD56) Polyclonal Antibody, Unconjugated (bs-0805R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CD56/NCAM1 Polyclonal Antibody, Unconjugated(bs-0805R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell:SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (CD56) polyclonal Antibody, Unconjugated



Blank control: Jurkat cells(blue). Primary Antibody:Rabbit Anti-CD56 antibody(bs-0805R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

(bs-0805R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells were fixed with 2% paraformaldehyde (10 min) . Primary antibody (bs-0805R, 1μg /1x10^6 cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=15.8]** Jinyang Liu. et al.In Situ Monitoring of Membrane Protein Dynamics Using High-Throughput Red-Light-Activated Single-Molecule Tracking..ACS Nano.2025 Mar 28. single-molecule tracking ;Human. 40153256
- **[IF=15.304]** Yao Lei. et al. Phytochemical natural killer cells reprogram tumor microenvironment for potent immunotherapy of solid tumors. BIOMATERIALS. 2022 Jun;:121635 WB,IF,FCM ;Mouse. 10.1016/j.biomaterials.2022.121635
- **[IF=6.7]** Xiong Liu-Lin. et al. Single-cell RNA sequencing reveals peripheral immunological features in Parkinson’ s Disease. NPJ PARKINSONS DIS. 2024 Oct;10(1):1-14 IF ;Human. 39366969
- **[IF=2.6]** Wu TH et al. The Combination of Astragalus membranaceus and Angelica sinensis Inhibits Lung Cancer and Cachexia through Its Immunomodulatory Function. J Oncol. 2019 Nov 3;2019:9206951. FCM ;Mouse. 31781219
- **[IF=1.7]** Yuji Hayashi. et al. Simultaneous disturbance of NHE1 and LOXL2 decreases tumorigenicity of head and neck squamous cell carcinoma. AURIS NASUS LARYNX. 2024 Jun;51:472 IF ;Human. 38520980