bs-4727R **[Primary Antibody]**

MRC1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4360 **SWISS:** P22897

Target: MRC1

Immunogen: KLH conjugated synthetic peptide derived from human MRC1/CD206: 201-300/1456.

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: The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. The protein encoded by this gene is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. The protein has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment. This gene is in close proximity to MRC1L1. The gene loci including this gene, MRC1L1, as well as LOC340843 and LOC340893, consist of two nearly identical, tandemly linked genomic regions, which are thought to be a part of a duplicated region. [provided by RefSeq].

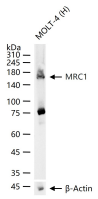
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

Reactivity: Human

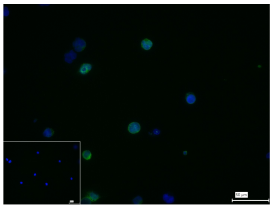
Predicted MW.: 160 kDa

Subcellular Location: Cell membrane

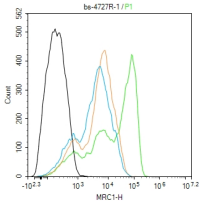
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with MRC1 polyclonal antibody, unconjugated (bs-4727R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



4% Paraformaldehyde-fixed Molt-4 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (MRC1) polyclonal Antibody, unconjugated (bs-4727R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The Molt-4(H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-MRC1 antibody (bs-4727R): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (bs-60295G-FITC): 1 µg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=20.722]** Meng Lin. et al. CRISPR-based in situ engineering tumor cells to reprogram macrophages for effective cancer immunotherapy. Nano Today. 2022 Feb;42:101359 IF ;Mouse. 10.1016/j.nantod.2021.101359
- **[IF=18.5]** Ruixin Zhang. et al. Enhanced Targeted Repair of Vascular Injury by Apoptotic-Cell-Mimicking Nanovesicles Engineered with P-Selectin Binding Peptide. ADV FUNCT MATER. 2024 Sep;:2405574 FC ;Mouse. 10.1002/adfm.202405574

- **[IF=18.027]** Guanghao Wu. et al. Enhanced Proliferation of Visualizable Mesenchymal Stem Cell–Platelet Hybrid Cell for Versatile Intracerebral Hemorrhage Treatment. ACS NANO. 2023;XXXX(XXX):XXX-XXX IF,ICC,FCM ;Mouse. 37037487
- **[IF=15.304]** Xuan Li. et al. ROS-responsive hydrogel coating modified titanium promotes vascularization and osteointegration of bone defects by orchestrating immunomodulation. BIOMATERIALS. 2022 Aug;287:121683 IHC ;Rat. 35870263
- **[IF=11.4]** Yuan Shyng-Shiou F.. et al. Areca nut-induced metabolic reprogramming and M2 differentiation promote OPMD malignant transformation. J EXP CLIN CANC RES. 2024 Dec;43(1):1-19 FCM ;Human. 39160581