bsm-51065M

[Primary Antibody]

CD44 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG2a
Clonality: Monoclonal
CloneNo.: 10B3
GeneID: 960
SWISS: P16070
Target: CD44
Purification: affinity purified by Protein G
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 protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul 2008].

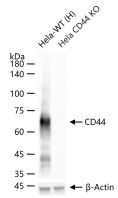
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:50-200)

Reactivity: Human

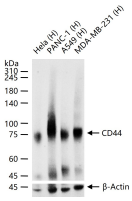
Predicted MW.: 85 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with CD44 monoclonal antibody, unconjugated (bsm-51065M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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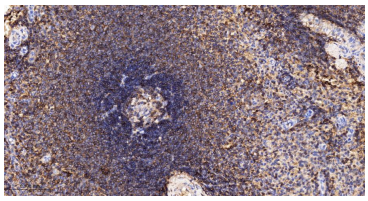
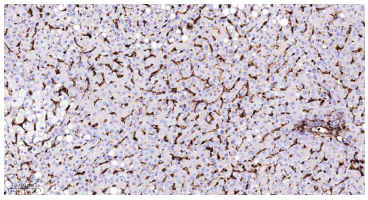
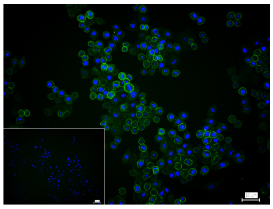


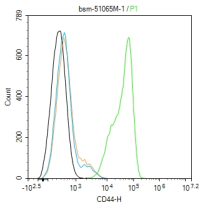
Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD44 Monoclonal Antibody, Unconjugated (bsm-51065M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD44 Monoclonal Antibody, Unconjugated (bsm-51065M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (CD44) monoclonal Antibody, unconjugated (bsm-51065M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-60296G-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



Blank control:Hela. Primary Antibody (green line): Mouse Anti-CD44 antibody (bsm-51065M) Dilution: 1ug/Test; Secondary Antibody (white blue line) : Goat anti-mouse IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）： Normal Mouse IgG Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room

used as the blank control.

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.

SELECTED CITATIONS

- **[IF=15.1]** Xu-Rui Gu. et al. A renal-targeted gene delivery system derived from spermidine for arginase-2 silencing and synergistic attenuation of drug-induced acute kidney injury. CHEM ENG J. 2024 Apr;486:150125 FCM ;Human. 10.1016/j.cej.2024.150125
- **[IF=5.7]** Jinmiao Tian. et al. QPH-FR: A Novel Quinoa Peptide Enhances Chemosensitivity by Targeting Leucine-Rich Repeat-Containing G Protein-Coupled Receptor 5 in Colorectal Cancer. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX IHC,WB ;Mouse,Human. 39047262
- **[IF=5]** Jun Li. et al. Targeting LRRC41 as a potential therapeutic approach for hepatocellular carcinoma. FRONT MOL BIOSCI. 2023; 10: 1300294 IHC ;Human. 38192337
- **[IF=1.851]** Xie P et al. Therapeutic effect of transplantation of human bone marrow-derived mesenchymal stem cells on neuron regeneration in a rat model of middle cerebral artery occlusion. Mol Med Rep. 2019 Jul 30. ICC ;Human. 31432152
- **[IF=1]** Yiqin He. et al. Overexpression of Lmx1a/NeuroD1 Mediates the Differentiation of Pulmonary Mesenchymal Stem Cells into Dopaminergic Neurons and Repairs Motor Dysfunction in Parkinson’s Disease Rats. BIOCELL. 2025 Jun;49:1037 IF ;Rat. 10.32604/biocell.2025.064633