

Datasheet for ABIN3043394
anti-CD44 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	CD44
Binding Specificity:	AA 29-56, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD44 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for CD44 antigen(CD44) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human CD44(29-56aa RFAGVFHVEKNGRYSISRTEAADLCKAF), different from the related mouse and rat sequences by two amino acids.
Sequence:	RFAGVFHVEK NGRYSISRTE AADLCKAF
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for CD44 antigen(CD44) detection. Tested with WB, IHC-P in Human. Gene Name: CD44 Molecule (Indian blood group)

Product Details

	Protein Name: CD44 antigen
Purification:	Immunogen affinity purified.

Target Details

Target:	CD44
Alternative Name:	CD44 (CD44 Products)

Background: CD44 is also known as LHR or MC56. 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.

Synonyms: LHR antibody|BA-1 antibody|CD 44 antibody|CD44 antibody|CD44 antigen antibody|CD44 isoform RC antibody|CD44 Molecule (Indian blood group) antibody|CD44 Molecule antibody|CD44_HUMAN antibody|CDw44 antibody|Cell surface glycoprotein CD44 antibody|chondroitin sulfate proteoglycan 8 antibody|CSPG8 antibody|ECM III antibody|ECMR III antibody|ECMR-III antibody|ECMRIII antibody|Epican antibody|Extracellular Matrix Receptor III antibody|GP90 Lymphocyte Homing Adhesion Receptor antibody|GP90 lymphocyte homing/adhesion receptor antibody|HCAM antibody|HCELL antibody|hematopoietic cell E- and L-selectin ligand antibody|Heparan Sulfate Proteoglycan antibody|Hermes Antigen antibody|homing function and Indian blood group system antibody|HSA antibody|HUTCH I antibody|HUTCH-I antibody|HUTCH1 antibody|Hyaluronate Receptor antibody|IN antibody|Indian blood group antibody|Inlu Related p80 Glycoprotein antibody|Ihr antibody|Ly 24 antibody|MC56 antibody|MDU2 antibody|MDU3 antibody|MGC10468 antibody|MIC4 antibody|MUTCH I antibody|MUTCH1 antibody|PGP 1 antibody|PGP-1 antibody|PGP-I antibody|PGP1 antibody|Phagocytic Glycoprotein 1 antibody|Phagocytic glycoprotein I antibody|Transmembrane glycoprotein antibody

Gene ID:	960
UniProt:	P16070

Target Details

Pathways: [Glycosaminoglycan Metabolic Process](#), [Autophagy](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Zhang, Yan, Liu, Li, Zhang, Pang, Hu, Zhao, Xie, Zhou, Wang, Xie: "Smad3-related miRNAs regulated oncogenic TRIB2 promoter activity to effectively suppress lung adenocarcinoma

growth." in: **Cell death & disease**, Vol. 7, Issue 12, pp. e2528, (2017) ([PubMed](#)).

Ding, Chang, Niu, Dai, Geng, Li, Guo, Xu: "Overexpression of transcription factor Foxa2 and Hnf1 α induced rat bone mesenchymal stem cells into hepatocytes." in: **Cytotechnology**, Vol. 68, Issue 5, pp. 2037-47, (2016) ([PubMed](#)).

Zhang, Shang, Hao, Zheng, Li, Liang, Cui, Liu: "Effects of human umbilical cord mesenchymal stem cell transplantation combined with minimally invasive hematoma aspiration on intracerebral hemorrhage in rats." in: **American journal of translational research**, Vol. 7, Issue 11, pp. 2176-86, (2016) ([PubMed](#)).

Zhang, Wang, Dai, Cai, Zhan, Gang, Hu, Xia, Zhang: "Lentivirus-mediated PLCy1 gene short-hairpin RNA suppresses tumor growth and metastasis of human gastric adenocarcinoma." in: **Oncotarget**, Vol. 7, Issue 7, pp. 8043-54, (2016) ([PubMed](#)).

Yin, Zhou, Wang, Ma, Li, Wang, She, Li: "CD44 promotes the migration of bone marrow-derived mesenchymal stem cells toward glioma." in: **Oncology letters**, Vol. 11, Issue 4, pp. 2353-2358, (2016) ([PubMed](#)).

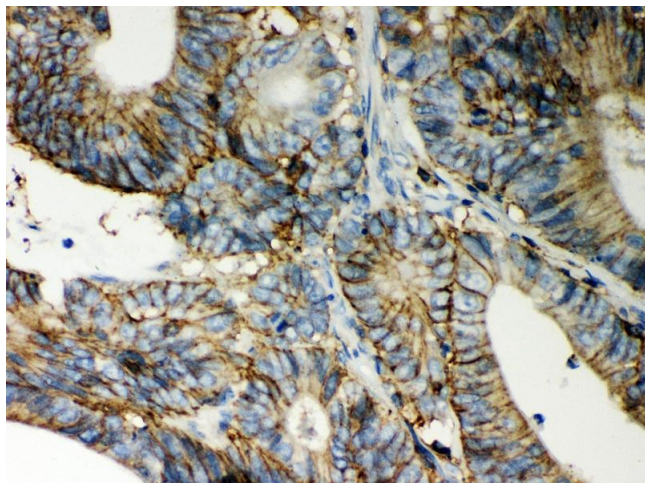
There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti- CD44 Picoband antibody, Western blotting All lanes: Anti CD44 at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: PANC Whole Cell Lysate at 40ug Predicted bind size: 82KD Observed bind size: 115KD



Immunohistochemistry

Image 2. Anti- CD44 Picoband antibody, IHC(P) IHC(P):
Human Intestinal Cancer Tissue