

Datasheet for ABIN669591
anti-CD44 antibody (AA 701-742)

3 Images

9 Publications

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Overview

Quantity:	100 µL
Target:	CD44
Binding Specificity:	AA 701-742
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD44 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD44
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	CD44
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Target Details

Alternative Name:	CD44 (CD44 Products)
Background:	<p>Synonyms: IN, LHR, MC56, MDU2, MDU3, MIC4, Pgp1, CDW44, CSPG8, HCELL, HUTCH-I, ECMR-III, CD44 antigen, Epican, Extracellular matrix receptor III, GP90 lymphocyte homing/adhesion receptor, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1, Phagocytic glycoprotein I, PGP-I, CD44</p> <p>Background: Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events.</p>
Gene ID:	960
UniProt:	P16070
Pathways:	Glycosaminoglycan Metabolic Process , Autophagy , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IF(IHC-P) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

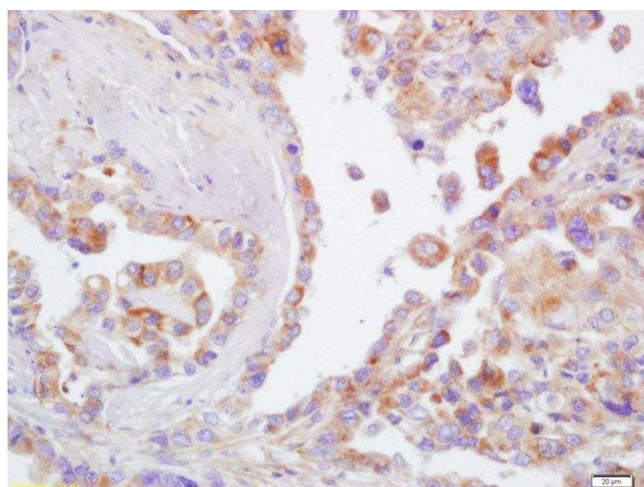
Product cited in: Neal, Boyle, Budge, Safadi, Richardson: "The glycoprotein GPNMB attenuates astrocyte inflammatory responses through the CD44 receptor." in: **Journal of neuroinflammation**, Vol. 15, Issue 1, pp. 73, (2019) ([PubMed](#)).

Zhu, Meng, Wang, Wang, Zhang, Li, Li, Tan, Yang, Huang: "Effects of neuritin on the differentiation of bone marrow-derived mesenchymal stem cells into neuron-like cells." in: **Molecular medicine reports**, Vol. 16, Issue 3, pp. 3201-3207, (2018) ([PubMed](#)).

Liao, Zhong, Liu, Li, Ling, Zou: "Bone mesenchymal stem cells co-expressing VEGF and BMP-6 genes to combat avascular necrosis of the femoral head." in: **Experimental and therapeutic medicine**, Vol. 15, Issue 1, pp. 954-962, (2018) ([PubMed](#)).

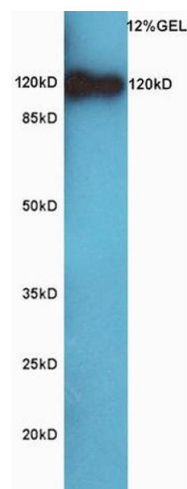
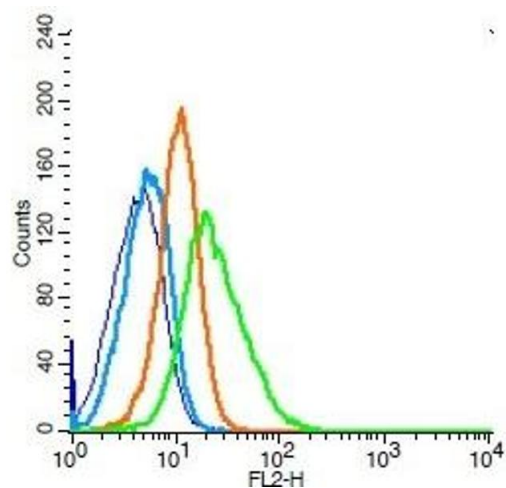
There are more publications referencing this product on: [Product page](#)

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Rabbit Anti-CD44 Polyclonal Antibody (ABIN669591) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Flow Cytometry

Image 2. Human Raji cells probed with CD44 Polyclonal Antibody, Unconjugated (green) at 1:100 for 30 minutes followed by a PE conjugated secondary antibody compared to unstained cells (blue), secondary only (light blue), and isotype control (orange).

Western Blotting

Image 3. Lane 1: Huh7 probed with Rabbit Anti-CD44 Polyclonal Antibody, Unconjugated (ABIN669591) at 1:300 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:5000 for 90 min at 37 °C.