

Datasheet for ABIN741270
anti-CD44 antibody (AA 325-429)

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Overview

Quantity:	100 µL
Target:	CD44
Binding Specificity:	AA 325-429
Reactivity:	Human, Mouse, Rat, Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD44 antibody is un-conjugated
Application:	Flow Cytometry (FACS), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

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

Target Details

Target:	CD44
Alternative Name:	CD44 (CD44 Products)

Target Details

Background:	<p>Synonyms: CD44 antigen, CDw44, Epican, Extracellular matrix receptor III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1, Phagocytic glycoprotein I, PGP-I, CD44, LHR, MDU2, MDU3, MIC4</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:	<p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p> <p>IF(ICC) 1:50-200</p>
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
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

Handling

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

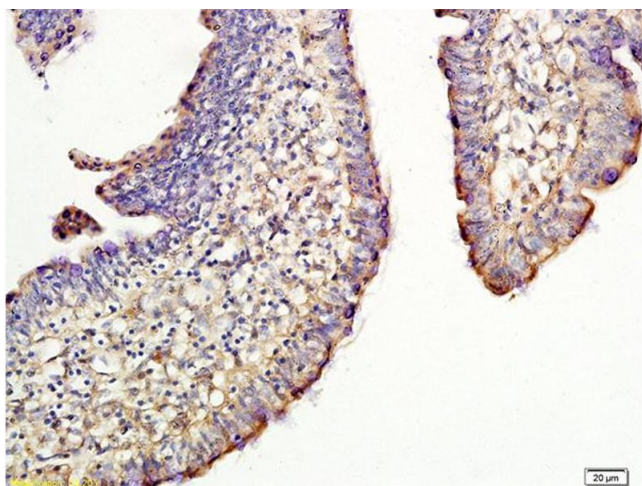
Publications

Product cited in: Yang, Zhao, Wang, Liu, Ma, Huang, Liu: "Isolation and biological characterization of tendon-derived stem cells from fetal bovine." in: **In vitro cellular & developmental biology. Animal**, Vol. 52, Issue 8, pp. 846-56, (2017) ([PubMed](#)).

Bai, Pang, Zhang, Wang, McKallip, Garner, Zhao: "Angiotensin II AT1 receptor alters ACE2 activity, eNOS expression and CD44-hyaluronan interaction in rats with hypertension and myocardial fibrosis." in: **Life sciences**, Vol. 153, pp. 141-52, (2016) ([PubMed](#)).

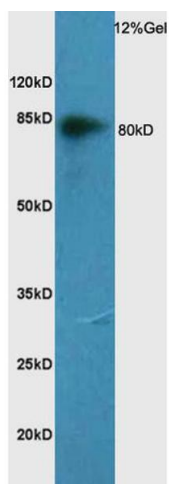
Gao, Zhang, Ding, Chen, Hu, Jiang, Li, Chen, Wang, Ye, Zhu: "Common expression of stemness molecular markers and early cardiac transcription factors in human Wharton's jelly-derived mesenchymal stem cells and embryonic stem cells." in: **Cell transplantation**, Vol. 22, Issue 10, pp. 1883-900, (2014) ([PubMed](#)).

Images



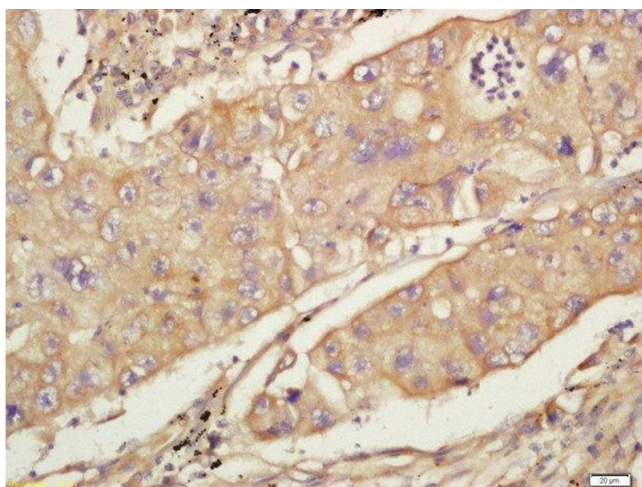
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded chicken ileum labeled with Anti-CD44V6 Polyclonal Antibody, Unconjugated (ABIN741270) at 1:300 followed by conjugation to the secondary antibody



SDS-PAGE

Image 2. Rat lung lysate probed with Anti CD44 Polyclonal Antibody, Unconjugated (ABIN741270) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 80kD. Observed band size: 80kD



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-CD44 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining