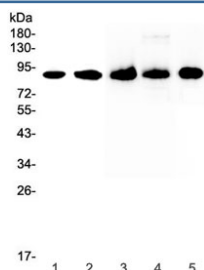


CD44 Antibody (R32994)

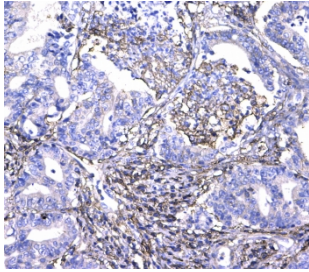
Catalog No.	Formulation	Size
R32994	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

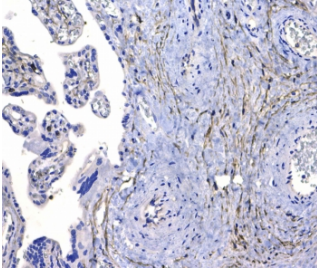
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P16070
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence (FFPE) : 1-3ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CD44 antibody is available for research use only.



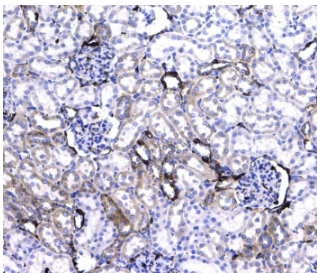
Western blot testing of 1) human HeLa, 2) human 22RV1, 3) rat spleen, 4) rat thymus and 5) mouse spleen lysate with CD44 antibody at 0.5ug/ml. Predicted molecular weight ~81 kDa.



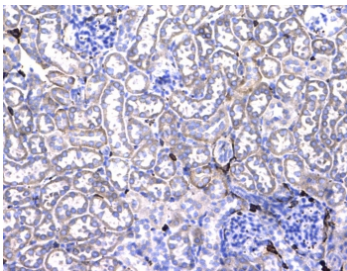
IHC testing of FFPE human colon cancer tissue with CD44 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



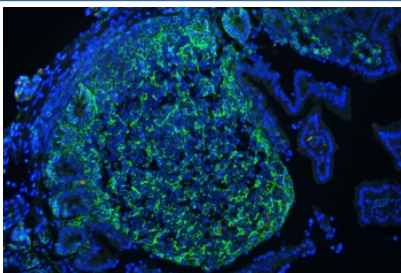
IHC testing of FFPE human placental tissue with CD44 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



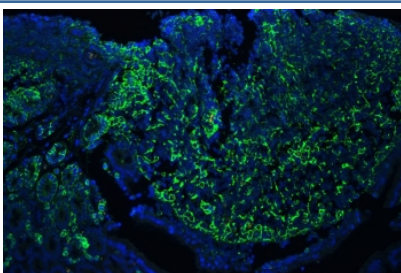
IHC testing of FFPE rat kidney tissue with CD44 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



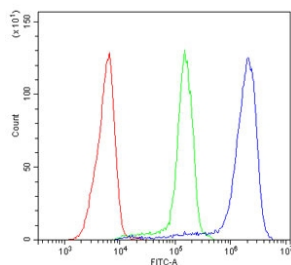
IHC testing of FFPE mouse kidney tissue with CD44 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Immunofluorescent staining of FFPE mouse lymph tissue with GNB1 antibody (green) at 1ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Immunofluorescent staining of FFPE mouse lymph tissue with GNB1 antibody (green) at 1ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human Jurkat cells with CD44 antibody at $1\mu\text{g}/10^6$ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD44 antibody.

Description

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.

Application Notes

Optimal dilution of the CD44 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein corresponding to amino acids Q21-H259 was used as the immunogen for the CD44 antibody.

Storage

After reconstitution, the CD44 antibody can be stored for up to one month at 4°C . For long-term, aliquot and store at -20°C . Avoid repeated freezing and thawing.