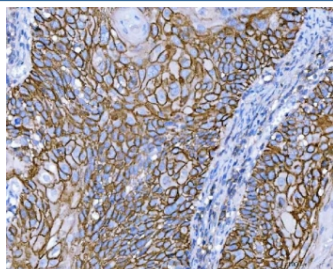


CD44 Antibody (R30197)

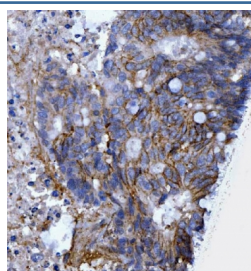
Catalog No.	Formulation	Size
R30197	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

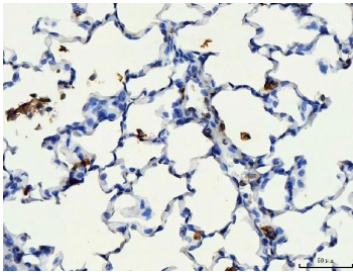
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P16070
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This CD44 antibody is available for research use only.



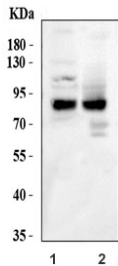
IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with CD44 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



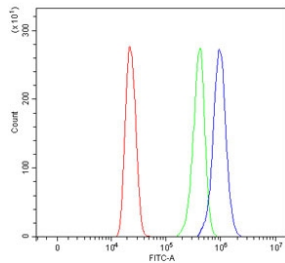
IHC staining of FFPE human rectal cancer tissue with CD44 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat lung tissue with CD44 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa and 2) rat PC-12 cell lysate with CD44 antibody. Predicted molecular weight ~82 kDa, but may be observed at higher molecular weights due to glycosylation.



Flow cytometry testing of human HL60 cells with CD44 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD44 antibody.

Description

The CD44 gene, which is a transmembrane protein, is expressed as a family of molecular isoforms generated from alternative RNA splicing and posttranslational modifications. The gene, which contains 19 exons spanning some 50 kb of genomic DNA, is a widely expressed integral membrane protein that acts as a receptor for hyaluronan(HA) and is important to cell-extracellular matrix interaction. CD44 binding with HA can play an important role in cellular aggregation and tumor cell growth. CD44 is necessary for limb development and functions in a novel growth factor presentation mechanism. A specific CD44 splice variant is crucial for the proliferation of these mesenchymal cells. CD44 glycoproteins are involved in leukocyte extravasation but also in the regulation of growth factor activation, stability, and signaling. Moreover, it plays a pivotal role in arteriogenesis.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD44 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human CD44 (DETRNLQNVDKIGV) was used as the immunogen for this CD44 antibody.

Storage

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

