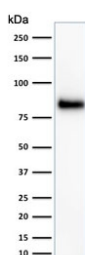


CD44 Antibody [clone HCAM/918] (V3011)

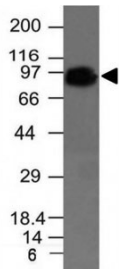
Catalog No.	Formulation	Size
V3011-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3011-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3011SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3011IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

[Bulk quote request](#)

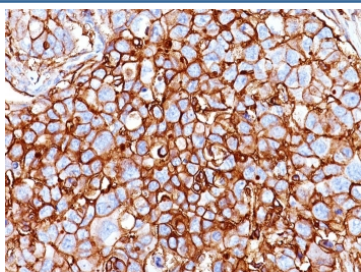
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	HCAM/918
Purity	Protein G affinity chromatography
UniProt	P16070
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-2ug/10 ⁶ cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT
Limitations	This CD44 antibody is available for research use only.



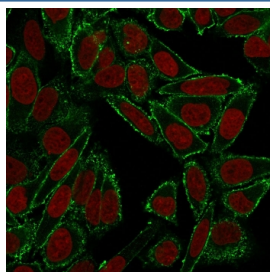
Western blot testing of HeLa cell lysate with HCAM antibody (clone HCAM/918).
Predicted molecular weight ~81 kDa.



Western blot of DU145 cell lysate using CD44 antibody (clone HCAM/918). Predicted molecular weight ~81 kDa.



IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with CD44 antibody (clone HCAM/918).



Immunofluorescent staining of human HeLa cells with HCAM antibody (clone HCAM/918, green) and Reddot nuclear stain (red).

Description

Recognizes a cell surface glycoprotein of 80-95kDa (CD44/HCAM) on lymphocytes, monocytes, and granulocytes (Leucocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin. It is a 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. [UniProt]

Application Notes

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

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for the CD44 antibody.

Storage

Store the CD44 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

