abcam

Product datasheet

Anti-CD44 antibody [1M7.8.1] ab119348

Recombinant

20 References 2 Images

Overview

Product name	Anti-CD44 antibody [1M7.8.1]
Description	Rat monoclonal [1M7.8.1] to CD44
Host species	Rat
Specificity	Detects a standard 85-kDa isoform of CD44 and a number of high molecular mass variant isoforms.
Tested applications	**Suitable for:** ICC/IF **Unsuitable for:** Flow Cyt,IHC-P or WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Full length protein corresponding to Mouse CD44. Database link: **P15379**
Positive control	ICC/IF: HeLa and NIH/3T3 cells.
General notes	This product has switched from a hybridoma to recombinant production method on 02nd November 2020 This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	1M7.8.1

Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab119348 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

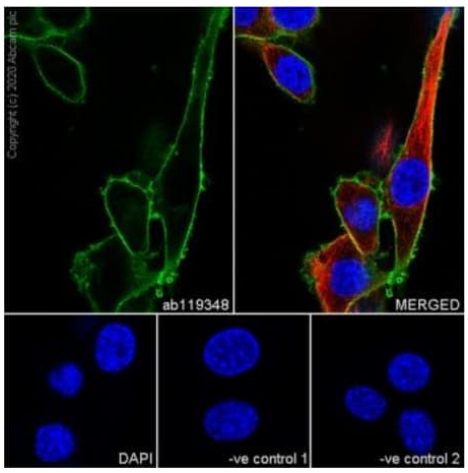
Application	Abreviews	Notes
ICC/IF		1/250.

Application notes Is unsuitable for Flow Cyt,IHC-P or WB.

Target

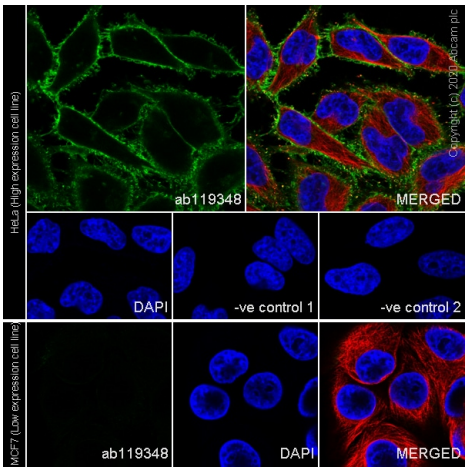
Function	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. 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.
Tissue specificity	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
Sequence similarities	Contains 1 Link domain.
Domain	The lectin-like LINK domain is responsible for hyaluronan binding.
Post-translational modifications	Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. N-glycosylated. O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.
Cellular localization	Membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-CD44 antibody [1M7.8.1] (ab119348)

NIH/3T3 (Mouse embryo fibroblast cell line) cells were fixed in 4% PFA and permeabilized with 0.1% Triton X-100. Primary antibody, ab119348 at 1/250 was incubated overnight at 4° C, followed by AlexaFluor® 488-conjugated Goat anti-Rat secondary antibody (**ab150157**) at 1/1000 dilution at RT for 45 min. **ab179513** Anti-beta Tubulin, used as a counterstain at 1/200 dilution, was co-incubated with ab119348 overnight at 4° C, followed by Alexa Fluor® 594 Goat Anti-Rabbit secondary (**ab150080**) at 1/1000 dilution at RT for 45 min. Nucleus were visualized using DAPI. Confocal image showing strong membranous staining in NIH/3T3 cells.



Immunocytochemistry/ Immunofluorescence - Anti-CD44 antibody [1M7.8.1] (ab119348)

HeLa (Human epithelial cell line from cervix adenocarcinoma) cells were fixed in 4% PFA and permeabilized with 0.1% Triton X-100. Primary antibody, ab119348 at 1/250 was incubated overnight at 4° C, followed by AlexaFluor® 488-conjugated Goat anti-Rat secondary antibody (**ab150157**) at 1/1000 dilution at RT for 45 min. **ab179513** Anti-beta Tubulin, used as a counterstain at 1/200 dilution, was co-incubated with ab119348 overnight at 4° C, followed by Alexa Fluor® 594 Goat Anti-Rabbit secondary (**ab150080**) at 1/1000 dilution at RT for 45 min. Nucleus were visualized using DAPI.

Confocal image showing strong membranous staining in HeLa cells.

Low expression control: MCF7 (PMID: 23039365).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors