Datasheet for ABIN3044455

anti-HMMR antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	HMMR
Binding Specificity:	AA 706-724, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMMR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hyaluronan mediated motility receptor(HMMR) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human CD168(706-724aa KEGNTNCYRAPMECQESWK).
Sequence:	KEGNTNCYRA PMECQESWK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Hyaluronan mediated motility receptor(HMMR) detection. Tested with WB, IHC-P in Human. Gene Name: hyaluronan-mediated motility receptor(RHAMM) Protein Name: Hyaluronan mediated motility receptor

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	HMMR
Alternative Name:	HMMR (HMMR Products)
Background:	HMMR, Hyaluronan-mediated motility receptor, is a protein which in humans is encoded by the HMMR gene. RHAMM was originally discovered as a soluble protein that altered migratory cell behavior and bound to hyaluronan, HMMR is less well studied than the main hyaluronan(HA) receptor, CD44. In contrast to CD44 and other cell-surface receptors which contain the classical membrane spanning domain and signal sequence for secretion from the endoplasmic reticulum/Golgi complex, HMMR does not contain a membrane spanning domain nor does the mRNA transcript contain a signal sequence. HMMR normally is localized inside the cell and is only release by certain, poorly defined stimuli. The transport of HMMR to the extracellular space still is unclear but may involve transport channels or proteins, flippase activity, or exocytosis. Intracellularly, HMMR associates with microtubules and, working with BRCA1 and BARD1, plays a role in the regulation of mitosis. Extracellularly, HMMR associates with CD44, and upon binding to HA, activates intracellular signaling pathways. Variants of HMMR caused by alternative splicing have been observed, but not thoroughly studied. Synonyms: CD168 antibody|CD168 antigen antibody|HMMR antibody|HMMR_HUMAN antibody|Hyaluronan mediated motility receptor antibody|Hyaluronan-mediated motility receptor(RHAMM) antibody|IHABP antibody|Intracellular hyaluronic acid-binding protein antibody|MGC119494 antibody|MGC119495 antibody|OTTHUMP00000196920 antibody|Receptor for hyaluronan-mediated motility antibody|RHAMM antibody
UniProt:	O75330
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be

Application Details

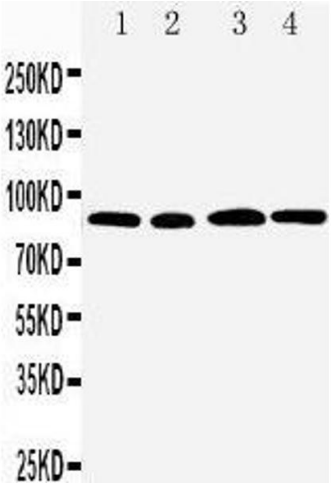
	fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

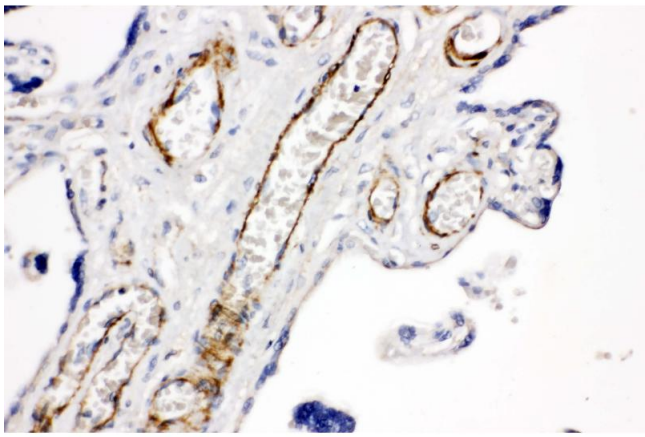
Publications

Product cited in:	Luchinat, Barbieri, Rubino, Kozyreva, Cantini, Banci: "In-cell NMR reveals potential precursor of toxic species from SOD1 fALS mutants." in: **Nature communications**, Vol. 5, pp. 5502, (2014) (PubMed).



Western Blotting

Image 1. Anti-CD168 antibody, Western blotting Lane 1: MM231 Cell Lysate Lane 2: MM453 Cell Lysate Lane 3: HELA Cell Lysate Lane 4: A549 Cell Lysate



Immunohistochemistry

Image 2. Anti-CD168 antibody, IHC(P) IHC(P): Human Placenta Tissue