10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CD168 Antibody
Catalog # ABO10906

Specification

Anti-CD168 Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O75330
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Hyaluronan mediated motility receptor(HMMR) detection. Tested with WB, IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CD168 Antibody - Additional Information

Gene ID 3161

Other Names
Hyaluronan mediated motility receptor, Intracellular hyaluronic acid-binding protein, Receptor for hyaluronan-mediated motility, CD168, HMMR, IHABP, RHAMM

Calculated MW
84100 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Cell surface. Cytoplasm .

Protein Name
Hyaluronan mediated motility receptor

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human CD168(706-724aa KEGNTNCYRAPMECQESWK).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, 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.**

Anti-CD168 Antibody - Protein Information

Name HMMR

Synonyms IHABP, RHAMM

Function
Receptor for hyaluronic acid (HA) (By similarity). Involved in cell motility (By similarity). When hyaluronan binds to HMMR, the phosphorylation of a number of proteins, including PTK2/FAK1 occurs. May also be involved in cellular transformation and metastasis formation, and in regulating extracellular-regulated kinase (ERK) activity. May act as a regulator of adipogenisis (By similarity).

Cellular Location
Cell surface {ECO:0000250|UniProtKB:Q00547}. Cytoplasm. Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q00547}

Tissue Location
Expressed in testis (PubMed:22965910). Expressed in the breast (PubMed:8890751).

Anti-CD168 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CD168 Antibody - Images

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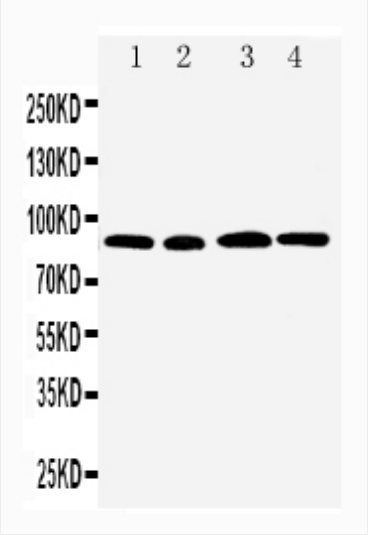
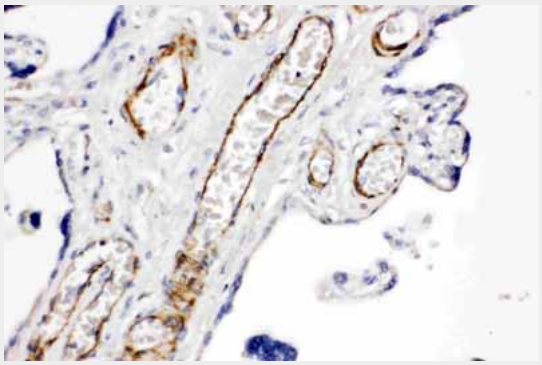


Anti-CD168 antibody, ABO10906, Western blottingLane 1: MM231 Cell LysateLane 2: MM453 Cell LysateLane 3: HELA Cell LysateLane 4: A549 Cell Lysate



Anti-CD168 antibody, ABO10906, IHC(P)IHC(P): Human Placenta Tissue

Anti-CD168 Antibody - 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.