

**RHAMM Antibody**  
Catalog # ASC11285

**Specification**

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**RHAMM Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">O75330</a>
Other Accession	<a href="#">NP_036617</a> , <a href="#">217272802</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	RHAMM antibody can be used for detection of RHAMM by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 5 µg/mL.

**RHAMM Antibody - Additional Information**

Gene ID	3161
Target/Specificity	
HMMR;	

**Reconstitution & Storage**

RHAMM antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

RHAMM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**RHAMM 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 adipogenesis (By similarity).

**Cellular Location**

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

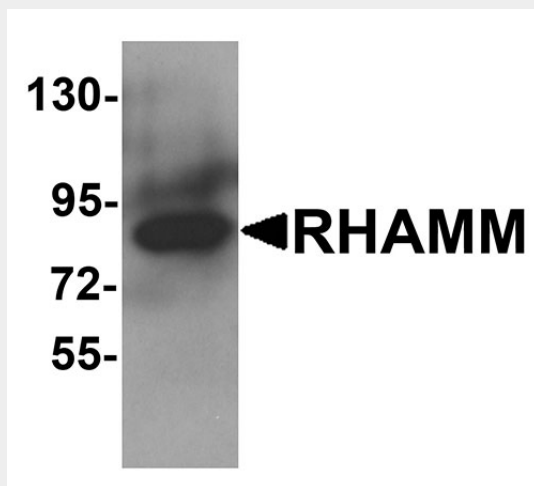
**Tissue Location**

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

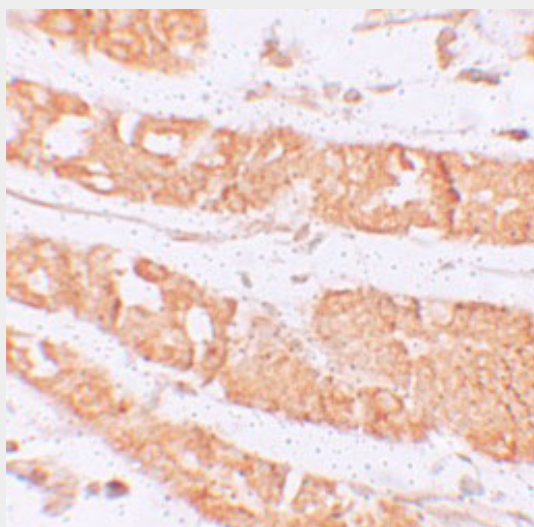
**RHAMM Antibody - Protocols**

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

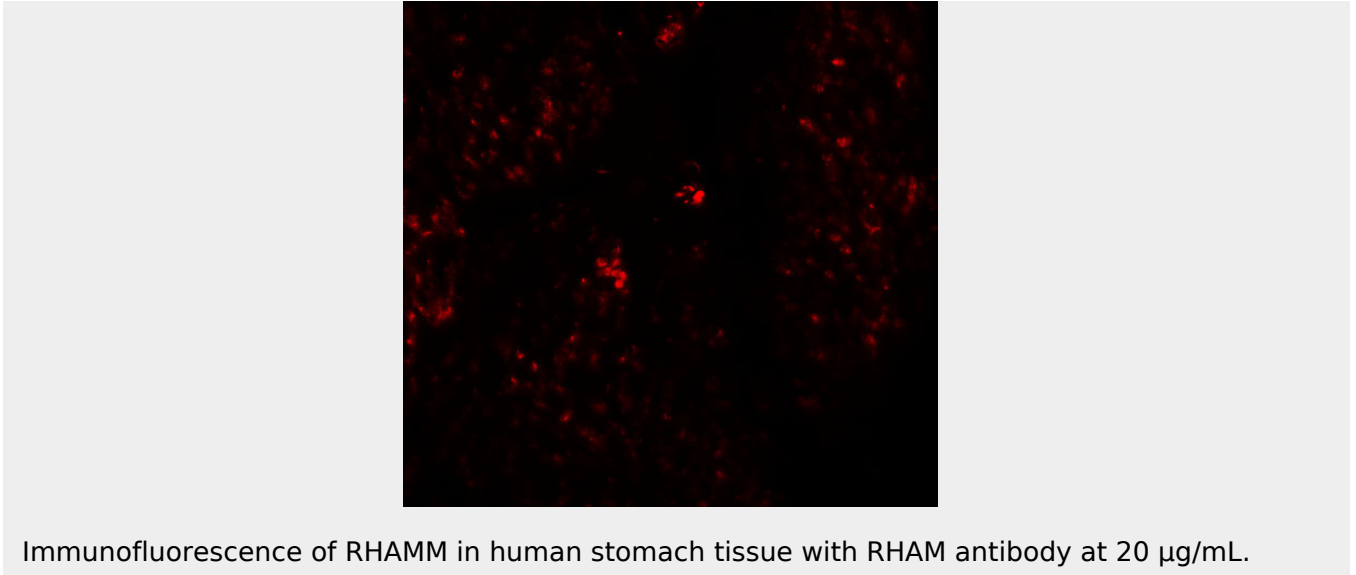
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**RHAMM Antibody - Images**

Western blot analysis of RHAMM in rat stomach tissue lysate with RHAMM antibody at 1  $\mu\text{g}/\text{mL}$ .



Immunohistochemistry of RHAMM in human stomach tissue with RHAMM antibody at 2.5  $\mu\text{g}/\text{mL}$ .



### **RHAMM Antibody - Background**

**RHAMM Antibody:** The hyaluronan-mediated motility receptor, also known as RHAMM, was initially identified as a soluble protein that could be released by sub-confluent migrating cells, promoting cell motility and invasion via interactions with hyaluronan (HA) and the cell surface. While RHAMM is normally poorly expressed in most normal tissues and is not required for embryonic development or normal cell homeostasis functions, its expression is increased during wound repair in response to hypoxia and fibrogenic factors. However, its overexpression is transforming in multiple types of cancers and is required for maintaining RAS transformation. RHAMM associates with BRCA1 and BARD1, attenuating the mitotic-spindle-promoting activity of RHAMM, which may contribute to tumor progression by promoting genomic instability.

### **RHAMM Antibody - References**

- Hardwick C, Hoare K, Owens R, et al. Molecular cloning of a novel hyaluronan receptor that promotes tumor cell motility. *J. Cell Biol.* 1992; 117:1343-50.
- Samuel SK, Hurta RA, Spearman MA, et al. TGF-beta 1 stimulation of cell locomotion utilizes the hyaluronan receptor RHAMM and hyaluronan. *J. Cell Biol.* 1993; 123:749-58.
- Hall CL, Yang B, Yang X, et al. Overexpression of the hyaluronan receptor RHAMM is transforming and is also required for H-ras transformation. *Cell* 1995; 82:19-26.
- Maxwell CA, McCarthy J, and Turley E. Cell-surface and mitotic-spindle RHAMM: moonlighting or dual oncogenic functions? *J. Cell Sci.* 2008; 121:925-32.