

87129

RHAMM/CD168 (E7S4Y) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-Bond, IHC-P, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit IgG	UniProt ID: #O75330	Entrez-Gene Id 3161
Product Usage		Application Dilution				
Information		Western Blotting			1:1000	
		IHC Leica Bond			1:5	60 - 1:200
		Immunohistochemis	try (Paraffin)		1:5	0 - 1:200
		Immunofluorescence (Immunocytochemistry)			1:50 - 1:200	
		Flow Cytometry (Fixe	d/Permeabilized)		1:1	00 - 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
		For a carrier free (BSA and azide free) version of this product see product #35364.				
Specificity/Sensitivity		RHAMM/CD168 (E7S4Y) Rabbit mAb recognizes endogenous levels of total RHAMM/CD168 protein. Non-specific staining was observed in kidney proximal tubules.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RHAMM/CD168 protein. The antigenic peptide spans a region that is 100% conserved among the four isoforms of RHAMM/CD168 reported in Uniprot.				
Background		Receptor for Hyaluronic acid-Mediated Motility (RHAMM, known also as CD168 or HMMR) was first identified as a putative receptor for hyaluronic acid (HA) that modulated HA-mediated cell motility (1). RHAMM/CD168 is functionally similar to the HA receptor CD44; however in contrast to CD44, RHAMM/CD168 does not contain a transmembrane domain or a signal peptide leader sequence, and so is not targeted exclusively to the cell membrane (1). RHAMM/CD168 has multiple isoforms; some are reportedly exported to the cell membrane in response to signaling by growth factors and cytokines (e.g., TGF- β) (2, 3), whereas others have been implicated in intracellular functions including mitotic spindle regulation (4). Cell surface RHAMM/CD168 is localized to membrane ruffles, consistent with proteins that regulate cell motility (1). Numerous research studies have reported that the expression of RHAMM/CD168 is positively associated with cancer cell growth, motility and/or metastasis (5-7), in addition to HA-mediated inflammation (8), suggesting the potential for therapeutic approaches that target HA-receptor mediated signaling (9,10).				
Background References		 Hardwick, C. et al. (1992) J Cell Biol 117, 1343-50. Samuel, S.K. et al. (1993) J Cell Biol 123, 749-58. Naor, D. (2016) Front Immunol 7, 39. Tolg, C. et al. (2010) J Biol Chem 285, 26461-74. Mele, V. et al. (2017) Oncotarget 8, 70617-29. Morera, D.S. et al. (2017) Br J Cancer 117, 1507-17. Wang, D. et al. (2016) Oncotarget 7, 39957-69. Hauser-Kawaguchi, A. et al. (2018) Matrix Biol 78-79, 346-56. Wong, K.M. et al. (2017) Curr Oncol Rep 19, 47. Yang, C. et al. (2017) Theranostics 7, 1719-34. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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