

6479

Olfm4 Antibody (Mouse Specific)



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Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 85-90, 70	Source/Isotype: Rabbit	UniProt ID: #Q3UZZ4	Entrez-Gene Id: 380924
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Olfm4 Antibody (Mouse Specific) recognizes endogenous levels of total mouse Olfm4 protein. This antibody does not cross-react with human OLFM4.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala85 of mouse Olfm4 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Olfactomedin-4 (OLFM4, hGC-1) is a member of the Olfactomedin family, a small group of extracellular proteins defined by the presence of a conserved "Olfactomedin domain" that is thought to facilitate protein-protein interactions (1). OLFM4 is a secreted glycoprotein, which forms disulfide bond-mediated oligomers, and is thought to mediate cell adhesion through its interactions with extracellular matrix proteins such as lectins (2). Human <i>OLFM4</i> was first cloned from myeloid cells (3) and is expressed in a distinct subset of neutrophils, though the functional significance of this differential expression pattern remains unclear (4). Among normal tissues, the expression of OLFM4 protein is most abundant in intestinal crypts (5), where it has garnered attention as a possible marker of intestinal stem cells (6). Notably, OLFM4 expression is markedly increased in several tumor types, including colorectal, gastric, pancreas, lung, and breast (reviewed in [1]). Furthermore, research studies show that the expression levels of OLFM4 vary in relation to the severity and/or differentiation status of multiple tumor types (1, 6-8), leading to the suggestion that OLFM4 may have utility as a prognostic marker in some cancer patients (9). Genetic analyses of murine LGR5 stem cells identified Olfm4 as a robust intestinal stem cell marker, but unlike its human homolog, mouse Olfm4 expression is not detected in colonic epithelial crypts (10).				
Background References		2. Liu, W. et al. (2006) 3. Zhang, J. et al. (200. 4. Welin, A. et al. (201. 5. van der Flier, L.G. et 6. Liu, W. et al. (2007) 7. Liu, W. et al. (2008) 8. Besson, D. et al. (2010) 9. Seko, N. et al. (2010)	1) Neoplasma 58, 9-13. 106) Exp Cell Res 312, 1785-97. 1002) Gene 283, 83-93. 1013) PLoS One 8, e69575. 1013) PLoS One 8, e69575. 1014: The state of			
Species Reactiv	itv	Species reactivity is do	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Species Reactivity

Western Blot Buffer

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

Applications Key W: Western Blotting

Cross-Reactivity Key M: Mouse

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