

Olfm4 (D6Y5A) XP® Rabbit mAb



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

Product Usage		Endogenous	MW (kDa): 85-90, 70	Source/Isotype: Rabbit IgG	#Q3UZZ4	Entrez-Gene Id: 380924	
Information	Product Usage		Application Dilution				
Information		Western Blotting			1:1000		
		Immunoprecipitation			1:50		
		Immunohistochemist	ry (Paraffin)		1:200 - 1:	800	
		Immunofluorescence	(Frozen)		1:200 - 1:	800	
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. Do not aliquot the antibody.					
		For a carrier free (BSA and azide free) version of this product see product #25426.					
Specificity/Sensitivity		Olfm4 (D6Y5A) XP [®] Rabbit mAb recognizes endogenous levels of total mouse Olfm4 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala85 of mouse Olfm4 protein.					
		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).					
Background Ref	erences	1. Yu, L. et al. (2011) <i>Neoplasma</i> 58, 9-13. 2. Liu, W. et al. (2006) <i>Exp Cell Res</i> 312, 1785-97. 3. Zhang, J. et al. (2002) <i>Gene</i> 283, 83-93. 4. Welin, A. et al. (2013) <i>PLoS One</i> 8, e69575. 5. van der Flier, L.G. et al. (2009) <i>Gastroenterology</i> 137, 15-7. 6. Liu, W. et al. (2007) <i>Histopathology</i> 51, 157-65. 7. Liu, W. et al. (2008) <i>Clin Cancer Res</i> 14, 1041-9. 8. Besson, D. et al. (2011) <i>Mol Cell Proteomics</i> 10, M111.009712. 9. Seko, N. et al. (2010) <i>Exp Ther Med</i> 1, 73-8.					
Species Reactivi	ty	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X					

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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F:

Immunofluorescence (Frozen)

Cross-Reactivity Key

M: Mouse

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