្តុ OLFM4 (D1E4M) XP[®] Rabbit mAb





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Applications: W, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 75-78	Source/Isotype: Rabbit IgG	UniProt ID: #Q6UX06	Entrez-Gene Id: 10562		
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:100 - 1:400			
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 #75587.						
Specificity/Sen	sitivity	OLFM4 (D1E4M) XP $^{ extsf{@}}$ Rabbit mAb recognizes endogenous levels of total OLFM4 protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe94 of human OLFM4 protein.						
Background		Olfactomedin-4 (OLFM4, hGC-1) is a member of the Olfactomedin family, a small group of extracellula 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 extracellula 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 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 Re	eferences	 Yu, L. et al. (2011) Neoplasma 58, 9-13. Liu, W. et al. (2006) Exp Cell Res 312, 1785-97. Zhang, J. et al. (2002) Gene 283, 83-93. Welin, A. et al. (2013) PLoS One 8, e69575. van der Flier, L.G. et al. (2009) Gastroenterology 137, 15-7. Liu, W. et al. (2007) Histopathology 51, 157-65. Liu, W. et al. (2008) Clin Cancer Res 14, 1041-9. Besson, D. et al. (2011) Mol Cell Proteomics 10, M111.009712. Seko, N. et al. (2010) Exp Ther Med 1, 73-8. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				western blot).		
Western Blot B	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 K	ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivit	ty Key	H: Human						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalStain is a registered trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc.						

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