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MUC1 (VU4H5) Mouse mAb Ord Sup We 3 Trask Lane | Danve



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Applications: W, IHC-P, IF-IC, FC- FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 230, 400	Source/Isotype: Mouse IgG1	UniProt ID: #P15941	Entrez-Gene Id: 4582		
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:50 - 1:100 1:200 - 1:800 1:50 - 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. Do not aliquot the antibody.						
Specificity/Sens	itivity	For a carrier free (BSA and azide free) version of this product see product #68123. MUC1 (VU4H5) Mouse mAb detects endogenous levels of total MUC1. This antibody does not cross- react with other mucin proteins.						
Source / Purific	ation	Monoclonal antibody (isotype: IgG1k) is produced by immunizing a BALB/c mouse with MUC1 60 mer tandem repeats (BSA conjugated).						
Background		Mucins represent a family of glycoproteins characterized by repeat domains and dense O-glycosylation (1). MUC1 (or mucin 1) is aberrantly overexpressed in most human carcinomas. Increased expression of MUC1 in carcinomas reduces cell-cell and cell-ECM interactions. MUC1 is cleaved proteolytically, and the large ectodomain can remain associated with the small 25 kDa carboxy-terminal domain that contains a transmembrane segment and a 72-residue cytoplasmic tail (1). MUC1 interacts with ErbB family receptors and potentiates ERK1/2 activation (2). MUC1 also interacts with β -catenin, which is regulated by GSK-3 β , PKC γ , and Src through phosphorylation at Ser44, Thr41, and Tyr46 of the MUC1 cytoplasmic tail (3-5). Overexpression of MUC1 potentiates transformation (6) and attenuates stress-induced apoptosis through the Akt or p53 pathways (7,8).						
Background Re	ferences	 Baldus, S.E. et al. (2004) <i>Crit Rev Clin Lab Sci</i> 41, 189-231. Schroeder, J.A. et al. (2001) <i>J Biol Chem</i> 276, 13057-64. Li, Y. et al. (1998) <i>Mol Cell Biol</i> 18, 7216-24. Li, Y. et al. (2001) <i>J Biol Chem</i> 276, 6061-4. Ren, J. et al. (2002) <i>J Biol Chem</i> 277, 17616-22. Schroeder, J.A. et al. (2004) <i>Oncogene</i> 23, 5739-47. Raina, D. et al. (2004) <i>J Biol Chem</i> 279, 20607-12. Wei, X. et al. (2005) <i>Cancer Cell</i> 7, 167-78. 						
Species Reactiv	ity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Bu	uffer	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 Ke	у	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity	y Key	H: Human						
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