1/14/24, 11:35 AM

MUC1 (D9O8K) XP® Rabbit mAb (PE Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.						
Applications: FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P15941	Entrez-Gene Id: 4582	
Product Usage Information	Ар	plication			Dilution	
	Flo	w Cytometry (Fixe	d/Permeabilized)		1:50	
	Flo	w Cytometry (Live)		1:50	
Storage	•	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity / Sensitiv	vity MUG	MUC1 (D9O8K) XP^{\otimes} Rabbit mAb (PE Conjugate) detects endogenous levels of total MUC1 protein.				
Source / Purification	-	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human MUC1 protein.				
Product Description	flow	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated MUC1 (D9O8K) XP® Rabbit mAb #14161.				
Background	MU(MU(largi tran: and PKC Ove	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 Refere	2. S 3. Li	chroeder, J.A. et a , Y. et al. (1998) <i>M</i>	2004) Crit Rev Clin Lab Sci 41, I. (2001) J Biol Chem 276, 1309 Iol Cell Biol 18, 7216-24. Biol Chem 276, 6061-4.			

Species Reactivity

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

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

5. Ren, J. et al. (2002) J Biol Chem 277, 17616-22. 6. Schroeder, J.A. et al. (2004) Oncogene 23, 5739-47. 7. Raina, D. et al. (2004) J Biol Chem 279, 20607-12. 8. Wei, X. et al. (2005) Cancer Cell 7, 167-78.

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