MIST1/bHLHa15 (D7N4B) XP® Rabbit mAb



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Applications: W, IHC-P	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #Q7RTS1	Entrez-Gene Id 168620
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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	A and azide free) ver	sion of this product see	product #65896.	
Specificity/Sensitivity		MIST1/bHLHa15 (D7N4B) XP [®] Rabbit mAb recognizes endogenous levels of total MIST1/bHLHa15 protein.				
Species predicted to react based on 100% sequence homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln181 of human MIST1/bHLHa15 protein.				
Background		Class A basic helix-loop-helix protein 15 (MIST1, bHLHa15) is a highly conserved basic helix loop helix family transcription factor that binds E-box motifs and regulates the expression of developmentally regulated genes (1). MIST1 can bind DNA as a homodimer, or may heterodimerize with other bHLH proteins to regulate target gene expression (1). MIST1 is expressed in an array of tissues, including salivary glands, stomach, small intestine, and the pancreas, but is generally restricted to secretory cell subtypes (2). In the pancreas, MIST1 is essential for the maturation, maintenance, and function of acinar cells (3). In gastric chief cells, MIST1 regulates the expression of RAB26 and RAB3D, two GTPases that function to regulate secretory granule formation (4). Loss of MIST1 in gastric chief cells may be a potential marker of gastric epithelial neoplasia (5).				
Background Re	ferences	 Lemercier, C. et al. (1997) Dev Biol 182, 101-13. Pin, C.L. et al. (2000) Anat Rec 259, 157-67. Pin, C.L. et al. (2001) J Cell Biol 155, 519-30. Tian, X. et al. (2010) Mol Cell Biol 30, 1269-84. Lennerz, J.K. et al. (2010) Am J Pathol 177, 1514-33. 				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	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 IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key H: Human M: Mouse

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