

For Research Use Only

MIST1 Monoclonal antibody

Catalog Number: 68092-1-Ig



Basic Information

Catalog Number: 68092-1-Ig	GenBank Accession Number: BC113394	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 168620	CloneNo.: 1E10B3
Source: Mouse	Full Name: basic helix-loop-helix family, member a15	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG2a	Calculated MW: 189 aa, 21 kDa	
Immunogen Catalog Number: AG18509	Observed MW: 27 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : BxPC-3 cells, SW 1990 cells Pig pancreas tissue, Rat pancreas tissue
Species Specificity: Human, Pig, Rat , Mouse	

Background Information

Muscle intestine stomach expression 1 (MIST1), also named bHLHa15, is a secretory cell transcription factor that belongs to the basic helix-loop-helix superfamily. MIST1 is mainly expressed in serous secreted cells and essential for the development and maturation of secretory cells. Secretory cells lacking MIST1 exhibit structural and functional defects, including alterations in cytoskeletal organization and cell polarity and improper cell-cell junction. In healthy pancreata, MIST1 facilitates cell-to-cell communication, promotes acinar cell polarity, controls Ca²⁺ flux, promotes unfolded protein response (UPR) homeostasis, aids in vesicle assembly, and is required for regulated exocytosis. MIST1 was downregulated in pancreatic cancer tissues compared with normal or adjacent pancreatic tissues and lower MIST1 expression in pancreatic cancer cell lines than normal acinar cells (BxPC-3, PANC-1, SW 1990) (PMID:29859299). MIST1 is downregulated in the development of gastric cancer and in gastric cancer cells compared with SW620 cells (PMID:34149921).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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