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PTRF Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant PTRF.
Catalog # AT3498a

Product Information

Application	IHC
Primary Accession	Q6NZI2
Other Accession	NM_012232
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	1F7
Calculated MW	43476

Additional Information

Gene ID	284119
Other Names	Polymerase I and transcript release factor, Cavin-1, PTRF {ECO:0000312|EMBL:AAH661231}
Target/Specificity	PTRF (NP_036364, 233 a.a. ~ 321 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IHC~~1:100~500
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PTRF Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

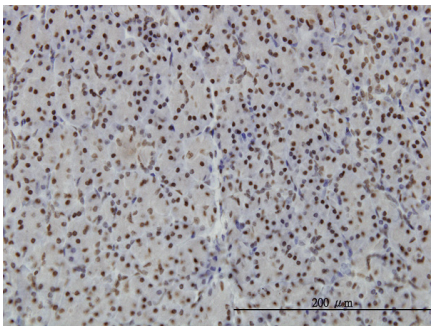
Background

This gene encodes a protein that enables the dissociation of paused ternary polymerase I transcription complexes from the 3' end of pre-rRNA transcripts. This protein regulates rRNA transcription by promoting the dissociation of transcription complexes and the reinitiation of polymerase I on nascent rRNA transcripts. This protein also localizes to caveolae at the plasma membrane and is thought to play a critical role in the formation of caveolae and the stabilization of caveolins. This protein translocates from caveolae to the cytoplasm after insulin stimulation. Caveolae contain truncated forms of this protein and may be the site of phosphorylation-dependent proteolysis. This protein is also thought to modify lipid metabolism and insulin-regulated gene expression. Mutations in this gene result in a disorder characterized by generalized lipodystrophy and muscular dystrophy.

References

1.SDPR induces membrane curvature and functions in the formation of caveolae.Hansen CG, Bright NA, Howard G, Nichols BJ.Nat Cell Biol. 2009 Jul;11(7):807-14. Epub 2009 Jun 14.

Images



Immunoperoxidase of monoclonal antibody to PTRF on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.