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PGM5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17589b

Product Information

Application	WB, E
Primary Accession	Q15124
Other Accession	NP_068800.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37601
Calculated MW	62225
Antigen Region	404-430

Additional Information

Gene ID	5239
Other Names	Phosphoglucomutase-like protein 5, Aciculin, Phosphoglucomutase-related protein, PGM-RP, PGM5, PGMRP
Target/Specificity	This PGM5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 404-430 amino acids from the C-terminal region of human PGM5.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PGM5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PGM5 (HGNC:8908)
Synonyms	PGMRP
Function	Component of adherens-type cell-cell and cell-matrix junctions

	(PubMed:8175905). Positively regulates maturation and alignment of myofibrils, also promotes organization of sarcomeres (By similarity). Has no phosphoglucomutase activity in vitro (PubMed:8175905).
Cellular Location	Cell junction, adherens junction. Cytoplasm, cytoskeleton. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q8BZF8}. Note=Concentrated in focal contacts at the ends of actin bundles, and associated with actin filaments
Tissue Location	Detected in smooth and cardiac muscle at high levels and in skeletal muscle at low level. Present in other tissues due to vascular or other smooth muscle component. Low levels are present in liver, kidney, skin and brain (at protein level)

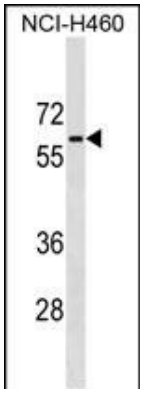
Background

Phosphoglucomutases (EC 5.2.2.2.), such as PGM5, are phosphotransferases involved in interconversion of glucose-1-phosphate and glucose-6-phosphate. PGM activity is essential in formation of carbohydrates from glucose-6-phosphate and in formation of glucose-6-phosphate from galactose and glycogen (Edwards et al., 1995 [PubMed 8586438]).

References

Wakayama, Y., et al. Acta Neuropathol. 99(6):654-662(2000)
Moiseeva, E.P., et al. Eur. J. Biochem. 248(3):634-643(1997)
Moiseeva, E.P., et al. Eur. J. Biochem. 235 (1-2), 103-113 (1996) :
Edwards, Y.H., et al. Genomics 30(2):350-353(1995)
Belkin, A.M., et al. Exp. Cell Res. 221(1):132-140(1995)

Images



PGM5 Antibody (C-term) (Cat. #AP17589b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PGM5 antibody detected the PGM5 protein (arrow).