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Datasheet for ABIN7126786

Recombinant anti-Phosphoglucomutase 5 antibody

Overview

Quantity:	100 µg
Target:	Phosphoglucomutase 5 (PGM5)
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Phosphoglucomutase 5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Coating (Coat), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Cytoskeletal fraction of the human myometrium tissue extract
Isotype:	IgG2a
Specificity:	Aciculin, also known as PGM5 (phosphoglucomutase 5) or PGMRP, is a 567 amino acid protein that belongs to the phosphoglucomutase family of phosphotransferases, which play an important role in the interconversion of glucose-1-phosphate and glucose-6-phosphate. Localized to the cell junction and expressed at high levels in smooth and cardiac muscle, Aciculin binds magnesium as a cofactor and interacts with dystrophin and utrophin, possibly playing a role in cytoskeletal organization and function. Aciculin exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 9, which houses over 900 genes and comprises nearly 4 % of the human genome.

Product Details

Cross-Reactivity (Details):	Human, Cow, Mouse, Rat and Rabbit. Predicted to react with Porcine, Avian, and Frog.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	Phosphoglucomutase 5 (PGM5)
Alternative Name:	PGM5 (PGM5 Products)
Background:	Aciculin, PGM-RP, PGM5, PGMRP, phosphoglucomutase 5, Phosphoglucomutase-like protein 5, Phosphoglucomutase-related protein, Aciculin / Phosphoglucomutase 5 (PGM5) Cellular localisation: Cytoplasm
Molecular Weight:	56kDa
Gene ID:	5239, 307835
UniProt:	Q15124
Pathways:	Cellular Glucan Metabolic Process

Application Details

Application Notes:	Known_Application: ELISA (For coating, order antibody without BSA), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (2-4 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined. Positive_Control: Human heart muscle or smooth muscle (IHC). Mouse heart tissue lysate (WB).
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C, -80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.

Handling

Expiry Date: 24 months