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Product datasheet for CF503440

PGAM2 Mouse Monoclonal Antibody [Clone ID: OTI4B12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4B12
Applications:	IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100
Reactivity:	Human, Monkey, Mouse, Rat, Dog
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PGAM2(NP_000281) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	28.6 kDa
Gene Name:	Homo sapiens phosphoglycerate mutase 2 (PGAM2), mRNA.
Database Link:	NP_000281 Entrez Gene 24959 RatEntrez Gene 56012 MouseEntrez Gene 475495 DogEntrez Gene 720615 MonkeyEntrez Gene 5224 Human P15259

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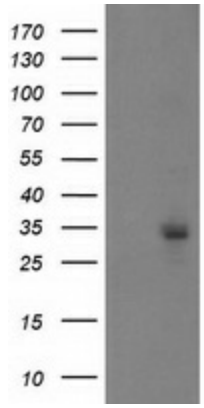
Background: Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). This gene encodes muscle-specific PGAM subunit. Mutations in this gene cause muscle phosphoglycerate mutase eficiency, also known as glycogen storage disease X. [provided by RefSeq]

Synonyms: GSD10; PGAM-M; PGAMM

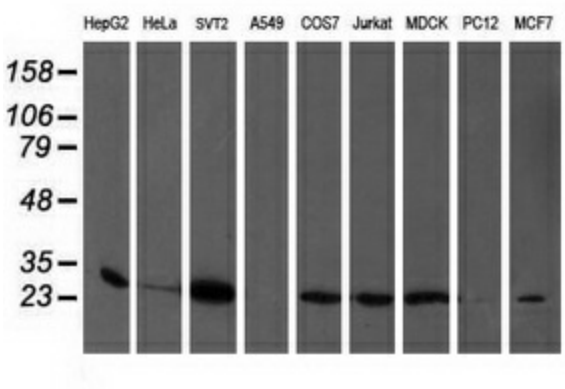
Protein Families: Druggable Genome

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways

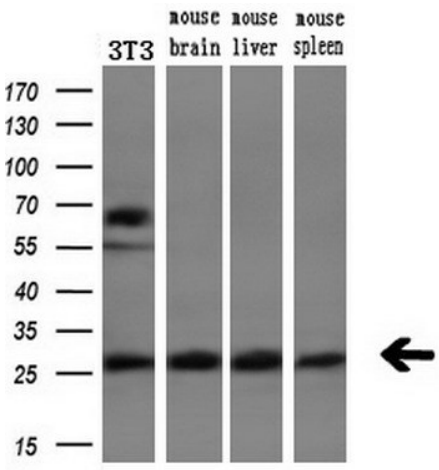
Product images:



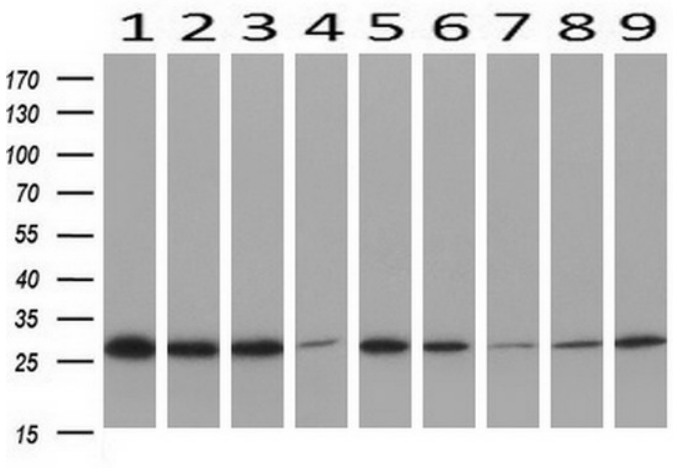
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PGAM2 ([RC200701], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PGAM2. Positive lysates [LY424823] (100ug) and [LC424823] (20ug) can be purchased separately from OriGene.



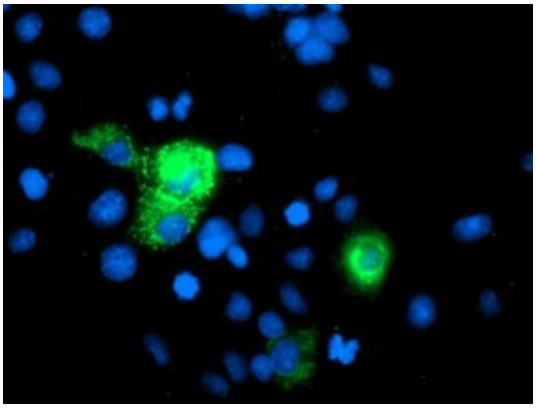
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PGAM2 monoclonal antibody.



Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-PGAM2 monoclonal antibody (1:200).



Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-PGAM2 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon).



Anti-PGAM2 mouse monoclonal antibody ([TA503440]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PGAM2 ([RC200701]).