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Product datasheet for TA503425BM

PGAM2 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI4E9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4E9
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:50~100, FLOW 1:100
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PGAM2(NP_000028) produced in HEK293 cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	28.6 kDa
Gene Name:	phosphoglycerate mutase 2
Database Link:	NP_000281 Entrez Gene 24959 RatEntrez Gene 56012 MouseEntrez Gene 720615 MonkeyEntrez Gene 5224 Human P15259

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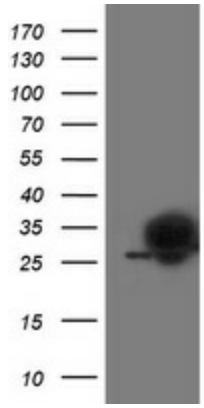
Background: Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating 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

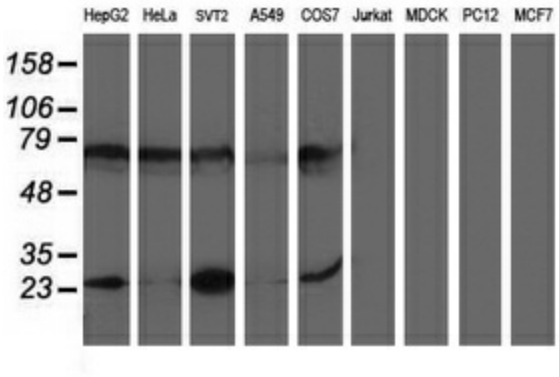
Protein Families: Druggable Genome

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways

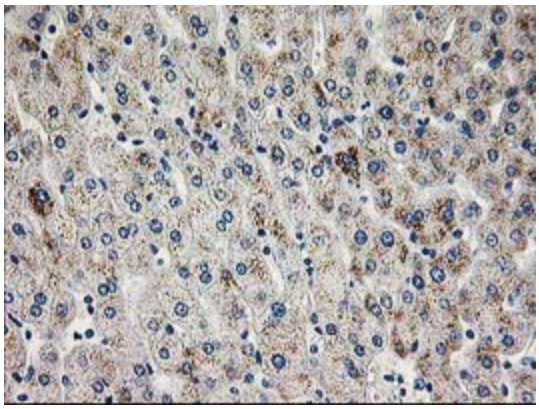
Product images:



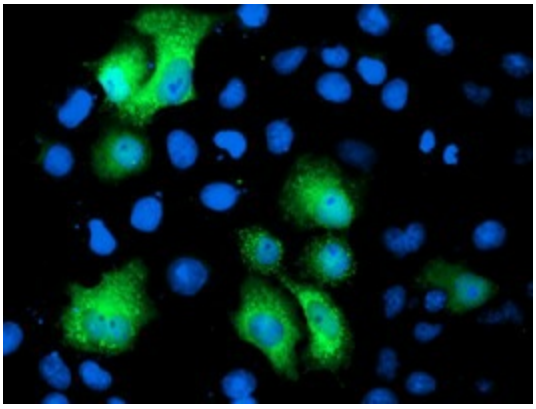
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PGAM2 (Cat# [RC200701], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PGAM2(Cat# [TA503425]). Positive lysates [LY424823] (100ug) and [LC424823] (20ug) can be purchased separately from OriGene.



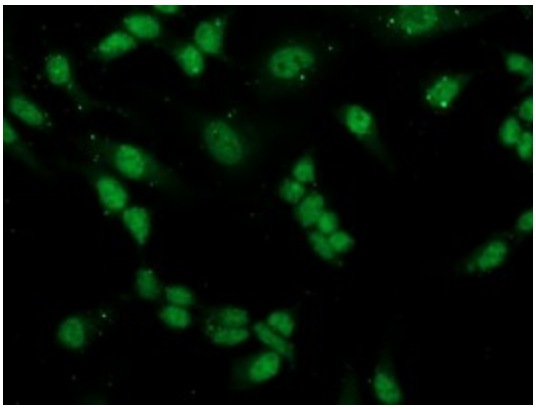
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PGAM2 monoclonal antibody.



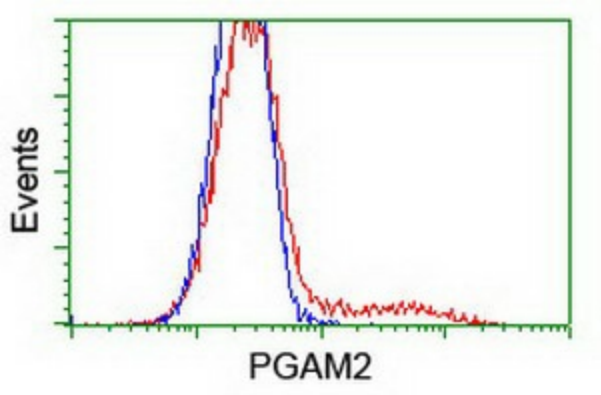
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-PGAM2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503425])



Anti-PGAM2 mouse monoclonal antibody ([TA503425]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PGAM2 ([RC200701]).



Immunofluorescent staining of HeLa cells using anti-PGAM2 mouse monoclonal antibody ([TA503425]).



HEK293T cells transfected with either [RC200701] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PGAM2 antibody ([TA503425]), and then analyzed by flow cytometry.