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Product datasheet for TA806782AM

PHGDH Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI4A1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4A1
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PHGDH (NP_006614) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	phosphoglycerate dehydrogenase
Database Link:	NP_006614 Entrez Gene 58835 RatEntrez Gene 236539 MouseEntrez Gene 26227 Human O43175
Background:	This gene encodes the enzyme which is involved in the early steps of L-serine synthesis in animal cells. L-serine is required for D-serine and other amino acid synthesis. The enzyme requires NAD/NADH as a cofactor and forms homotetramers for activity. Mutations in this gene have been found in a family with congenital microcephaly, psychomotor retardation and other symptoms. Multiple alternatively spliced transcript variants have been found, however the full-length nature of most are not known. [provided by RefSeq, Aug 2011]
Synonyms:	3-PGDH; 3PGDH; HEL-S-113; NLS; NLS1; PDG; PGAD; PGD; PGDH; PHGDHD; SERA

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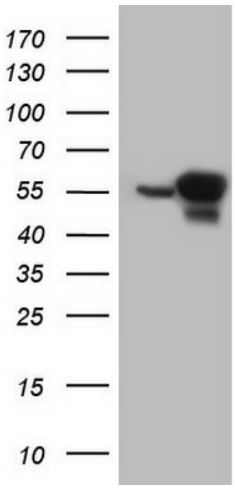
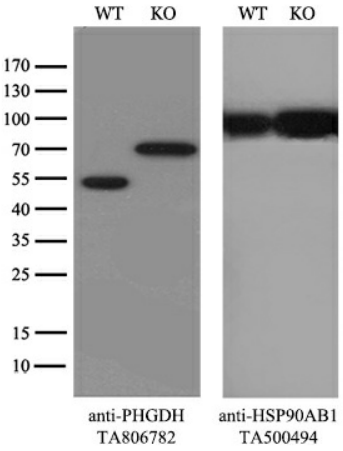
Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Glycine, serine and threonine metabolism, Metabolic pathways

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PHGDH ([RC203949], 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-PHGDH. Positive lysates [LY401983] (100ug) and [LC401983] (20ug) can be purchased separately from OriGene.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and PHGDH-Knockout Hela cells (KO, Cat# [LC810345]) were separated by SDS-PAGE and immunoblotted with anti-PHGDH monoclonal antibody [TA806782], (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.