

ARG57152 anti-PGK1 antibody [2F4]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2F4] recognizes PGK1
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	2F4
Isotype	IgG1, kappa
Target Name	PGK1
Species	Human
Immunogen	Recombinant fragment around aa. 1-417 of Human PGK1
Conjugation	Un-conjugated
Alternate Names	EC 2.7.2.3; Primer recognition protein 2; PGKA; PRP 2; Phosphoglycerate kinase 1; MIG10; Cell migration-inducing gene 10 protein; HEL-S-68p

Application Instructions

Application table	Application	Dilution
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 5230 Human](#)

[Swiss-port # P00558 Human](#)

Gene Symbol

PGK1

Gene Full Name

phosphoglycerate kinase 1

Background

The protein encoded by this gene is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate. The encoded protein may also act as a cofactor for polymerase alpha. Additionally, this protein is secreted by tumor cells where it participates in angiogenesis by functioning to reduce disulfide bonds in the serine protease, plasmin, which consequently leads to the release of the tumor blood vessel inhibitor angiostatin. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Deficiency of the enzyme is associated with a wide range of clinical phenotypes hemolytic anemia and neurological impairment. Pseudogenes of this gene have been defined on chromosomes 19, 21 and the X chromosome. [provided by RefSeq, Jan 2014]

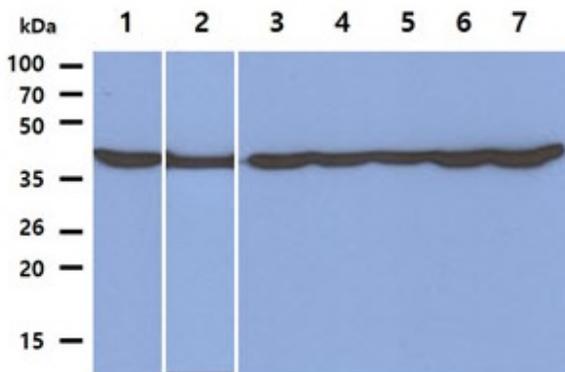
Function

In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein). [UniProt]

Calculated Mw

45 kDa

Images



ARG57152 anti-PGK1 antibody [2F4] WB image

Western blot: 40 µg of 1) HeLa, 2) LNCaP, 3) A549, 4) HepG2, 5) 293T, 6) K562, and 7) Jurkat cell lysates stained with ARG57152 anti-PGK1 antibody [2F4] at 1:1000.