

PGK1 (Acetyl-Lys388) Antibody

Catalog No: #11599

Package Size: #11599-1 50ul #11599-2 100ul

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Description

Product Name	PGK1 (Acetyl-Lys388) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC IP
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of PGK1 only when acetylated at Lysine 388.
Immunogen Type	Peptide
Immunogen Description	Peptide sequence around acetylation site of lysine 388(E-D-K(Acetyl)-V-S) derived from Human PGK1.
Conjugates	Unconjugated
Other Names	MGC117307,MGC142128,MGC8947,MIG10,PGKA
Accession No.	Swiss-Prot#: P00558 NCBI Gene ID: 5230 NCBI mRNA#: NM_000291.3 NCBI Protein#: NP_000282.1
Calculated MW	45KD
Concentration	1.0mg/mL
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

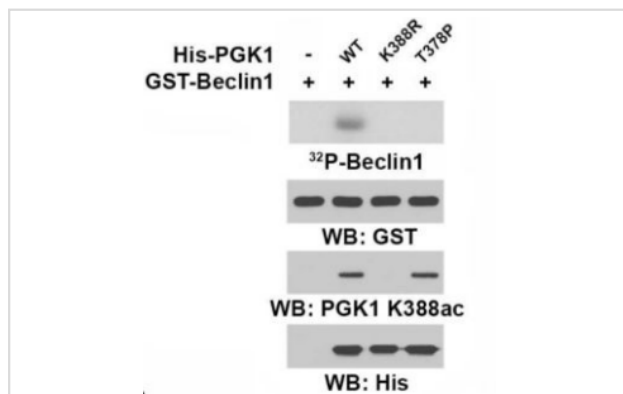
Application Details

WB dilution: 1:500~1:1000

IHC dilution: 1:50~1:100

IP dilution: 1:20~1:50

Images



The indicated His-PGK1 proteins immobilized on Ni-NTA agarose beads was incubated with Flag-ARD1 and Ac-CoA, followed by incubation with purified GST-Beclin1 or GST-Beclin1 S30A, in the presence of [γ -³²P] ATP. Autoradiography was performed.

Background

The PGK1 gene encodes phosphoglycerate kinase-1, also known as ATP:3-phosphoglycerate 1-phosphotransferase (EC 2.7.2.3), which catalyzes the

reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP. It belongs to the phosphoglycerate kinase family and defects in PGK1 are the cause of phosphoglycerate kinase 1 deficiency (PGK1D).

References

Xu Qian¹, et al. Phosphoglycerate kinase 1 phosphorylates Beclin1 to induce autophagy. *Mol Cell*. 2017 March 02; 65(5): 917–931.e6. doi:10.1016/j.molcel.2017.01.027. Author

Published Papers

et al., Phosphoglycerate Kinase 1 Phosphorylates Beclin1 to Induce Autophagy. In *Mol Cell* on 2017 Mar 2 by Xu Qian, Xinjian Li, et al.. PMID: 28238651, (2017)

[PMID:28238651](#)

et al., Identification of a novel non-ATP-competitive protein kinase inhibitor of PGK1 from marine nature products. In *Biochem Pharmacol* on 2021 Jan by Yuying Wang, Lulu Sun, et al.. PMID:33212041, (2021)

[PMID:33212041](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.