Product Datasheet

PGK1 (Acetyl-Lys388) Antibody

Catalog No: #11599

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

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

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.
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
Uniprot	P00558
GeneID	5230;
Calculated MW	45KD
Concentration	1.0mg/mL
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

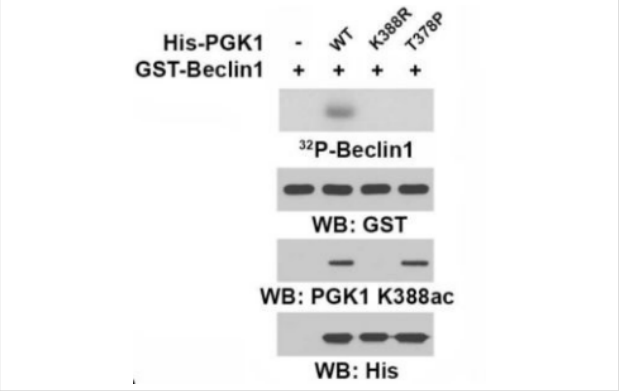
Application Details

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.

Product Description

Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.

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. Autho

Note: This product is for in vitro research use only