



## PGK1 (Acetyl-Lys388 ) Antibody

#58034

**Number:** 58034

**Amount:** 100µg/100µl

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** synthetic acetylpeptide corresponding to residues surrounding Lys388 of human PGK1

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific acetylpeptide. The antibody against non-acetylpeptide was removed by chromatography using non-acetylpeptide corresponding to the acetylation site.

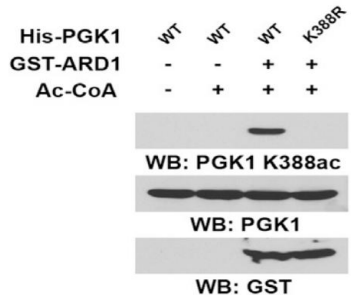
**Specificity/Sensitivity:** PGK1 (Acetyl-Lys388 )antibody detects endogenous levels of PGK1 only when acetylated at lysine388 .

**Reactivity:** Human

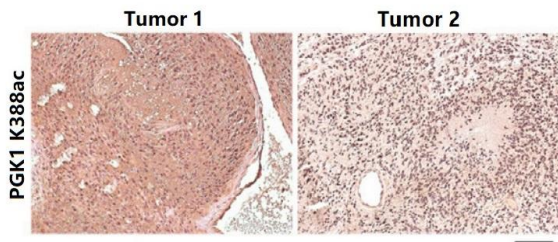
**Applications:**

Predicted MW: 43KD

WB :1:500~1:1000 IHC:1:50-200



An in vitro acetylation assay was performed by mixing purified ARD1 and purified PGK1 in the presence or absence of acetyl-CoA (Ac-CoA). Immunoblotting analyses were performed with the indicated antibodies.



Immunohistochemical staining of human GBM tissues were performed with the indicated antibodies. Scale bar, 200 µm.

**Background** :As an ATP-generating enzyme, PGK1 expression is upregulated in many types of human cancers. Glutamine deprivation and hypoxia result in ARD1-dependent phosphoglycerate kinase 1 (PGK1) K388 acetylation. PGK1 K388 acetylation levels correlate with poor prognosis in glioblastoma patients [1]

**Reference**: [1] Qian X, Li X, Cai Q, Zhang C, Yu Q, Jiang Y, Lee JH, Hawke D, Wang Y, Xia Y, Zheng Y, Jiang BH, Liu DX, Jiang T, Lu Z. Phosphoglycerate Kinase 1 Phosphorylates Beclin1 to Induce Autophagy. *Mol Cell*. 2017 Mar 2;65(5):917-931.e6. doi: 10.1016/j.molcel.2017.01.027.