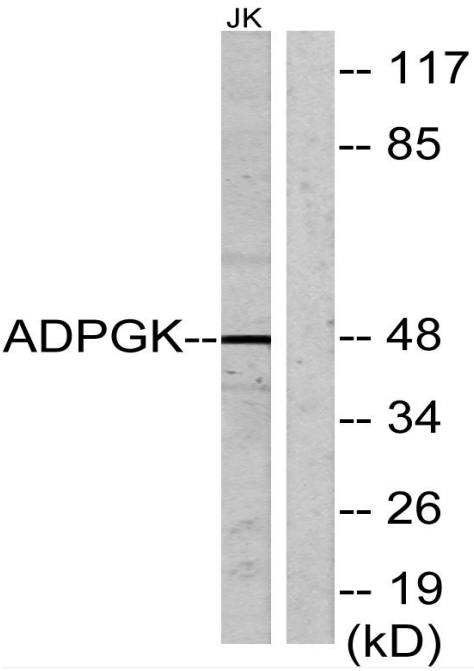
ADP-GK Polyclonal Antibody

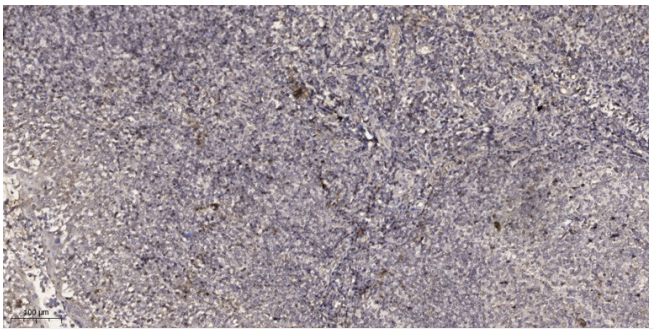
Catalog No	YP-Ab-03682
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	ADPGK
Protein Name	ADP-dependent glucokinase
Immunogen	The antiserum was produced against synthesized peptide derived from human ADPGK. AA range:241-290
Specificity	ADP-GK Polyclonal Antibody detects endogenous levels of ADP-GK protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ADPGK; PSEC0260; ADP-dependent glucokinase; ADP-GK; ADPGK; RbBP-35
Observed Band	47kD
Cell Pathway	Secreted .
Tissue Specificity	Brain,Heart,Kidney,Lymph node,Teratocarcinoma,Testis,
Function	catalytic activity:ADP + D-glucose = AMP + D-glucose 6-phosphate.,cofactor:Binds 1 magnesium ion per subunit.,function:Catalyzes the phosphorylation of D-glucose to D-glucose 6-phosphate using ADP as the phosphate donor. GDP and CDP can replace ADP, but with reduced efficiency.,pathway:Carbohydrate degradation; glycolysis.,similarity:Belongs to the ADP-dependent glucokinase family.,similarity:Contains 1 ADPK (ADP-dependent kinase) domain.,subunit:Monomer.,
Background	ADPGK (EC 2.7.1.147) catalyzes the ADP-dependent phosphorylation of glucose to glucose-6-phosphate and may play a role in glycolysis, possibly during ischemic conditions (Ronimus and Morgan, 2004 [PubMed 14975750]).[supplied by OMIM, Mar 2008],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from Jurkat cells, using ADPGK Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).