Mouse anti-Human, mouse PDK2 Monoclonal Antibody | anti-PDK2 antibody

PDK2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283436	**Mouse**	**Human, mouse**	**Immunohistochemistry, ELISA, Western Blot**

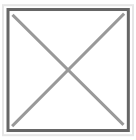
PRODUCT SYNONYMS

PDK2; Monoclonal Antibody; PDK2 Antibody; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2; mitochondrial; Pyruvate dehydrogenase kinase isoform 2; PDH kinase 2; PDKII; PDHK2; anti-PDK2 antibody

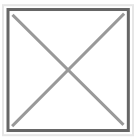
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	IgG1,K
Clone Number	180CT10.2.3
Specificity	This PDK2 monoclonal antibody is generated from mouse immunized with PDK2 recombinant protein.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	343
Applicable Applications for anti-PDK2 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Recombinant Protein
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

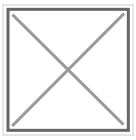
IMAGES



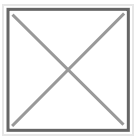
WB (Western Blot)
PDK2 Antibody (Cat.# AAA283436) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the PDK2 antibody detected the PDK2 protein (arrow).



WB (Western Blot)
Western blot analysis of lysates from human skeletal muscle, human brain, mouse brain, rat brain tissue (from left to right), using PDK2 Antibody(Cat.# AAA283436).AAA283436 was diluted at 1:2000 at each lane.A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody.Lysates at 20ug per lane.



IHC (Immunohistochemisry)
AAA283436 staining PDK2 in human liver sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6).Samples were incubated with primary antibody (1/25) for 1 hours at 37°C.A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



WB (Western Blot)
All lanes : Anti- at 1:1000 dilutionLane 1: human heart lysateLane 2: human skeletal muscle lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 46 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

WB (Western Blot)
Anti-PDK2 Antibody at 1:1000 dilution + human heart lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 46 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-PDK2 antibody	Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
Product Categories/Family for anti-PDK2 antibody	Crown Antibodies; Cancer; Metabolism; Signal Transduction
References	Li, J., et al. J. Biol. Chem. 284(49):34458-34467(2009) Fencl, F., et al. Pediatr. Nephrol. 24(5):983-989(2009) Sun, W., et al. Clin. Cancer Res. 15(2):476-484(2009) Hiromasa, Y., et al. Biochemistry 47(8):2312-2324(2008) Hiromasa, Y., et al. Biochemistry 47(8):2298-2311(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	315630349
NCBI GeneID	5164
NCBI Accession #	NP_001186827.1; NP_001186828.1; NP_002602.2
NCBI GenBank Nucleotide #	NM_001199898.1
UniProt Accession #	Q15119; Q6P515; Q9BS05; A8K3A7; B3KNW0
NCBI Official Full Name	pyruvate dehydrogenase kinase, isozyme 2 isoform 2
NCBI Official Synonym Full Names	pyruvate dehydrogenase kinase, isozyme 2
NCBI Official Symbol	PDK2
NCBI Official Synonym Symbols	PDHK2; PDKII
NCBI Protein Information	pyruvate dehydrogenase kinase, isozyme 2
UniProt Protein Name	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2, mitochondrial
UniProt Gene Name	**PDK2**
UniProt Synonym Gene Names	PDHK2; PDH kinase 2; PDKII
UniProt Entry Name	PDK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/pdk2-antibody-clone-180ct10-2-3-immunohistochemistry-western-blot-elisa/283436