

10-6544: Mouse Monoclonal Antibody to PDK2 (Clone: 180CT10.2.3)(Discontinued)

| | |
|--------------------------------|---|
| Clonality : | Monoclonal |
| Clone Name : | 180CT10.2.3 |
| Application : | WB,IHC-P |
| Reactivity : | Human,Mouse |
| Gene : | PDK2 |
| Gene ID : | 5164 |
| Uniprot ID : | Q15119 |
| Format : | Purified |
| Alternative Name : | [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2, mitochondrial, Pyruvate dehydrogenase kinase isoform 2, PDH kinase 2, PDKII, PDK2, PDHK2 |
| Isotype : | Mouse IgG1,Kappa |
| Immunogen Information : | Recombinant Protein |

Description

Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.

Product Info

| | |
|----------------------------|---|
| Amount : | 80 µl / 400 µl |
| Purification : | Protein G Chromatography |
| Content : | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Storage condition : | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Application Note

IHC-P~1:25|| WB~1:100-2000

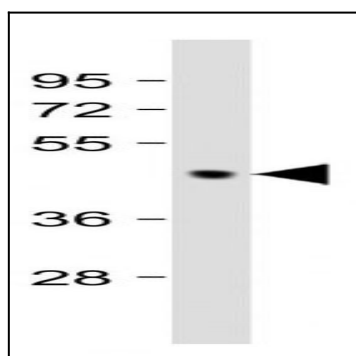


Figure 1: Anti-PDK2 Antibody (10-6544) at 1:1000 dilution + human heart lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa.

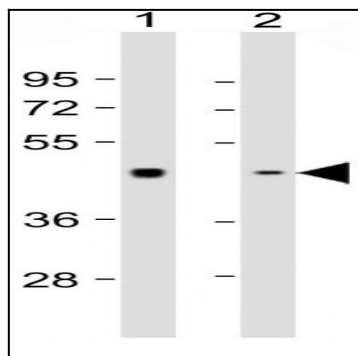


Figure 2: All lanes : Anti- at 1:1000 dilution with Lane 1: human heart lysate, Lane 2: human skeletal muscle lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa.

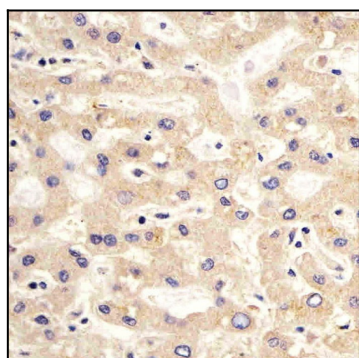


Figure 3: Staining of PDK2 antibody (10-6544) in human liver sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate 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.

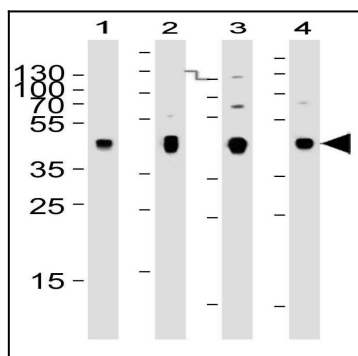


Figure 4: Western blot analysis of PDK2 antibody (10-6544) with lane 1: human skeletal muscle, lane 2: human brain, lane 3: mouse brain, lane 4: rat brain tissue. PDK2 antibody was diluted at 1:2000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 20 1/4 µg per lane.

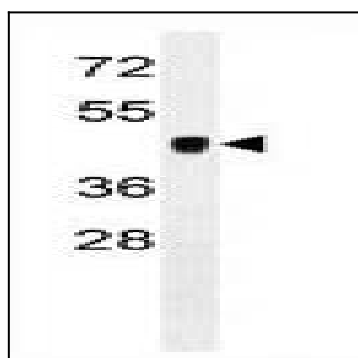


Figure 5: Western blot analysis of PDK2 antibody (10-6544) in mouse cerebellum tissue lysates (35 1/4 µg/lane). This demonstrates the PDK2 antibody detected the PDK2 protein.