

For Research Use Only

# PDP2 Polyclonal ANTIBODY



Catalog Number: 13404-1-AP **1 Publications**

## Basic Information

<b>Catalog Number:</b> 13404-1-AP	<b>GenBank Accession Number:</b> BC028030	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 380 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 57546	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> pyruvate dehydrogenase phosphatase isoenzyme 2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 529 aa, 60 kDa	
<b>Immunogen Catalog Number:</b> AG4257	<b>Observed MW:</b> 53 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	WB: mouse skeletal muscle tissue, HeLa cells, mouse kidney tissue
<b>Species Specificity:</b> human, mouse, rat	IHC: mouse brain tissue, human lymphoma tissue
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PDP2, is the Ca<sup>2+</sup>-insensitive isoform of pyruvate dehydrogenase phosphatase and found in liver and adipose tissue. In adipose tissue, insulin reduces the concentration dependence of PDP2 activity for Mg<sup>2+</sup> (PMID:12676647). It catalyzes the dephosphorylation and concomitant reactivation of the mitochondrial pyruvate dehydrogenase multienzyme complex. It can be detected the mature (52 kDa) and the immature (60 kDa) bands in western blot.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyu Ma	25301052	Nat Commun	WB

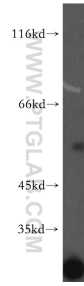
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

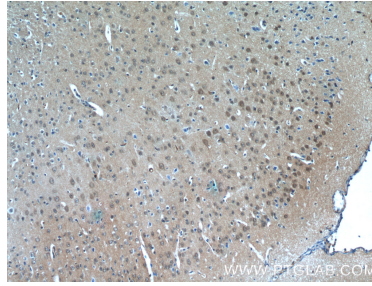
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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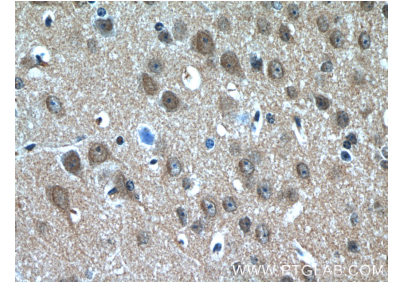
## Selected Validation Data



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13404-1-AP (PDP2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13404-1-AP (PDP2 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13404-1-AP (PDP2 Antibody) at dilution of 1:50 (under 40x lens).