

For Research Use Only

PDP2 Polyclonal antibody

Catalog Number: 13404-1-AP **2 Publications**



Basic Information

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

Applications

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

Background Information

PDP2, is the Ca²⁺-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 Mg²⁺ (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
Wanchun Yang	33725483	Dev Cell	WB

Storage

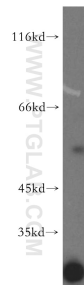
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

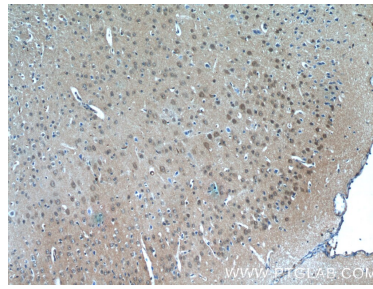
For technical support and original validation data for this product please contact:
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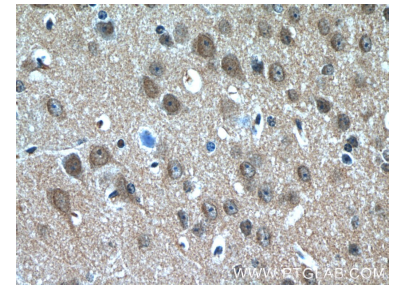
Selected Validation Data



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).