

For Research Use Only

LNPEP Polyclonal antibody

Catalog Number: 55154-1-AP



Basic Information

Catalog Number: 55154-1-AP	GenBank Accession Number: NM_005575	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 667 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4012	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200
Source: Rabbit	Full Name: leucyl/ cystinyl aminopeptidase	
Isotype: IgG	Calculated MW: 117 kDa	
	Observed MW: 117-125 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Species Specificity: human	WB : human brain tissue, COLO 320 cells, human heart tissue
Note-IHC: <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i>	IHC : human heart tissue, human kidney tissue

Background Information

LNPEP, also named as OTASE, IRAP, P-LAP and Otase, may be involved in the inactivation of neuronal peptides in the brain. LNPEP cleaves Met-enkephalin and dynorphin. It binds angiotensin IV and may be the angiotensin IV receptor in the brain. It can be detected a protein with molecular mass of 165 kDa in several human tissues including heart, small intestine, kidney and 140 kDa in brain. LNPEP contains 18 potential N-glycosylation sites so that the differential usage of the glycosylation site in the brain causes the difference in the molecular mass of the enzyme. (PMID:11389728). Two forms of LNPEP are purified from human placenta: one is a monomeric, 61-kDa protein and the other is a heterodimeric protein with 64- and 97-kDa subunits (PMID:10601849). It can form a homodimer of 280 kDa (PMID:10601849). This antibody is specific to LNPEP.

Storage

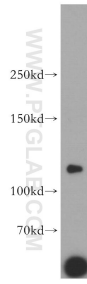
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

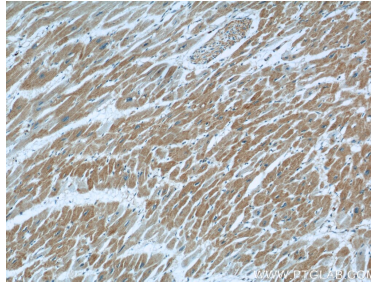
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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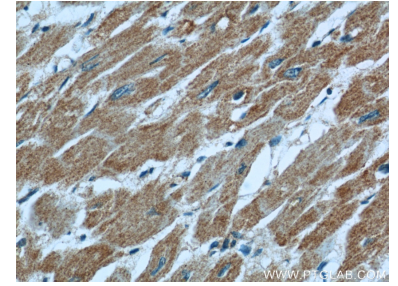
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 55154-1-AP (LNPEP antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 55154-1-AP (LNPEP antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 55154-1-AP (LNPEP antibody) at dilution of 1:50 (under 40x lens).