For Research Use Only

LEPR Polyclonal antibody Catalog Number: 20966-1-AP Featured Product

Featured Product



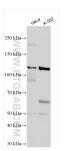


Basic Information	Catalog Number: GenBank Accession Number: 20966-1-AP NM_002303			Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NC	BI):	Recommended Dilutions:	
	650 μg/ml Source:	3953 UNIPROT ID: P48357 Full Name: leptin receptor Calculated MW: 132 kDa Observed MW: 100-150 kDa		WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:10-1:100	
	Rabbit				
	lsotype: IgG				
Applications	Tested Applications: Positive C		ntrols:		
	WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications:			WB : HeLa cells, PC-3 cells, mouse heart tissue, K-56 cells	
	WB, IHC, IF, IP			IP : mouse heart tissue,	
	Species Specificity: human, mouse		IHC : mouse	IHC : mouse liver tissue, human heart tissue, humar	
	Cited Species: pr			ostate hyperplasia tissue	
	human, mouse, rat IF/ICC : MCF-7 cells,			F-7 cells,	
	Note-IHC: suggested antig TE buffer pH 9.0; (*) Alter retrieval may be performa buffer pH 6.0	natively, antig			
Background Information	The hormone leptin, secreted predominantly from adipose tissue, plays a crucial role in the regulation of numerous neuroendocrine functions, from energy homeostasis to reproduction (PMID: 22249808). Leptin acts through the lept receptor (LEPR, also known as OB-R), a single-transmembrane-domain receptor of the cytokine receptor family. On ligand binding, LEPR mediates signaling through JAK2/STAT3 (PMID: 9102398). LEPR plays an important role in the regulation of glucose homeostasis via feeding and adiposity. Alternatively spliced transcript variants encoding different isoforms of LEPR have been described. This antibody can recognize long (LEPRb) and short (LEPRa,c,d) isoforms. The band at 150 kDa detected by this antibody is larger than the predicted molecular weight, probably dut to glycosylation (PMID: 10026237).				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Yu Gao	36187750	PeerJ	WB,IHC	
	Paola Maroni	33213024	Biomedicines	IHC	
	Shintaro Sukegawa	31717278	Materials (Basel)	IHC	

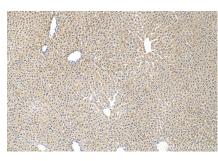
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

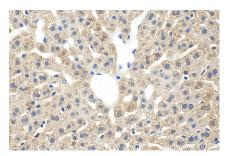
Selected Validation Data



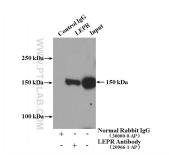
Various lysates were subjected to SDS PAGE followed by western blot with 20966-1-AP (LEPR antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



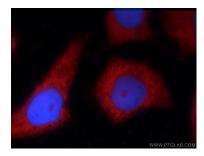
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 20966-1-AP (LEPR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



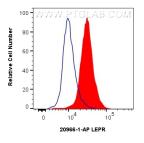
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 20966-1-AP (LEPR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-LEPR (IP:20966-1-AP, 5ug; Detection:20966-1-AP 1:700) with mouse heart tissue lysate 4000ug.



Immunofluorescent analysis of MCF-7 cells using 20966-1-AP (LEPR antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



1x10^6 HeLa cells were intracellularly stained with 0.4 ug LEPR Polyclonal antibody (20966-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).