For Research Use Only

LONP1 Polyclonal antibody Catalog Number:15440-1-AP Featured Product

Featured Product 97 Publications

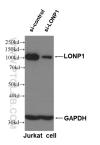


Basic Information	Catalog Number: 15440-1-AP			Purification Method: Antigen affinity purification		
	Concentration:GeneID (NCBI):500 ug/ml9361Source:UNIPROT ID:RabbitP36776			Recommended D WB 1:1000-1:6000		
				IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500		
	lsotype: IgG	Full Name: lon peptidase 1	Full Name: lon peptidase 1, mitochondrial Calculated MW: 106 kDa Observed MW: 100 kDa)	
	Immunogen Catalog Number: AG7196					
Applications				Controls:		
	WB, IHC, IF/ICC, IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP	lung tissue,	WB : HeLa cells, human heart tissue, rat heart tissue, ra lung tissue, mouse heart tissue, Jurkat cells, mouse brain tissue, rat brain tissue			
	Species Specificity:	IP : mouse l	IP : mouse heart tissue,			
	human, mouse, rat	IHC : humai	IHC : human lung cancer tissue,			
	Cited Species: human, mouse, rat, monkey, chicken IF/ICC : H			-		
	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	LONP1(Lon protease homolog, mitochondrial) is also named as LONP, LONHS, HLON, LON, PRSS15, PIM1, MGC 1498 and belongs to the peptidase S16 family. It seems to play a major role in the elimination of oxidatively modified proteins in the mitochondrial matrix(PMID:18021745). LONP1, also a nuclearly encoded and mitochondrially located stress-responsive protease, is involved in heme-mediated ALAS-1 turnover(PMID:21659532). It recognizes specific surface determinants or folds, initiates proteolysis at solvent-accessible sites, and generates unfolded polypeptides that are then progressively degraded(PMID:15870080). LONP1 has some isoforms with the MW of 106 kDa, 100 kDa and 86 kDa.					
Notable Publications	Author	Pubmed ID	Journal		Application	
	Ruosi Yao		Drug Des Devel Th	er	WB	
	Ya-Ling Yang		Int J Mol Sci		WB	
	Reiko lida	30310528	Oxid Med Cell Lon	gev	WB	
	Storage:					

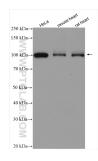
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

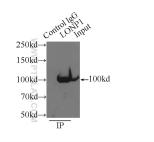
Selected Validation Data



WB result of LONP1 antibody (15440-1-AP, 1:6000) with si-Control and si-LONP1 transfected Jurkat cells.



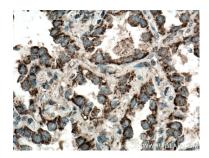
Various lysates were subjected to SDS PAGE followed by western blot with 15440-1-AP (LONP1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



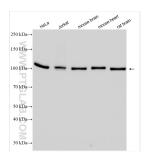
IP result of anti-LONP1 (IP:15440-1-AP, 3ug; Detection:15440-1-AP 1:1000) with mouse heart tissue lysate 9500ug.



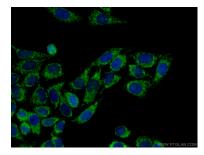
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 15440-1-AP (LONP1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



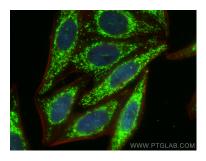
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 15440-1-AP (LONP1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



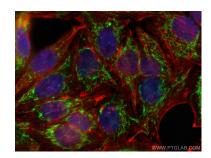
Various lysates were subjected to SDS PAGE followed by western blot with 15440-1-AP (LONP1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 15440-1-AP (LONP1 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using LONP1 antibody (15440-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using LONP1 antibody (15440-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).