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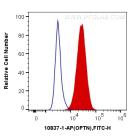
OPTN/Optineurin Polyclonal antibody Catalog Number: 10837-1-AP Featured Product 114 Publications

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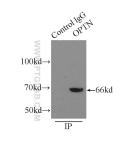
Basic Information	Catalog Number: 10837-1-AP	GenBank Accession Number: BC013876		Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCB):	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF-P 1:50-1:500	
	850 ug/ml	10133			
	Source: Rabbit	UNIPROT ID: Q96CV9			
	Isotype:	Full Name:			
	IgG	optineurin		IF/ICC 1:200-1:800	
	Immunogen Catalog Number: AG1272	Calculated MW: 66 kDa Observed MW: 66-70 kDa			
Applications	Tested Applications: WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA		Positive Co	Positive Controls:	
	Cited Applications: WB, IHC, IF, IP, CoIP			WB : HeLa cells, mouse brain tissue, rat brain tissue, HepG2 cells, NCCIT cells	
				IP : mouse brain tissue,	
	Species Specificity:			IHC : human gliomas tissue,	
	human, mouse, rat			IF-P : rat eye tissue,	
	Cited Species: human, mouse, rat, pig, monkey, hamster		IF/ICC : MC	IF/ICC : MCF-7 cells,	
	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	OPTN, also named as FIP2, GLC 1E, HIP7, HYPL and NRP, plays a neuroprotective role in the eye and optic nerve. It is probably part of the TNF-alpha signaling pathway that can shift the equilibrium toward induction of cell death. OPTN may act by regulating membrane trafficking and cellular morphogenesis via a complex that contains Rab8 and hungtingtin (HD). OPTN may constitute a cellular target for adenovirus E3 14.7, an inhibitor of TNF-alpha functions, thereby affecting cell death. Defects in OPTN are a cause of susceptibility to normal pressure glaucoma (NPG). OPTN mutated in adult-onset primary open angle glaucoma. It supports the protective role of OPTN in the trabecular meshwork. OPTN has 3 isoforms with MW 66,65 and 60 kDa (refer to UniProt). Catalog#10837-1-AP recognises 66 and 70-74 kDa band, and the additional 70-74 kDa band due to phosphorylation.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Dulcemaria Hernandez	36154443	mBio	IF	
	Shanshan Li	33014158	Oncol Lett	WB	
	Liangde Zheng	31525119	Autophagy	WB	
Storage	Storage:				

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

Selected Validation Data



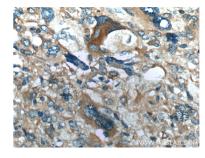
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human OPTN (10837-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit lgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



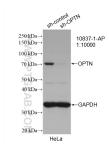
IP result of anti-OPTN (IP:10837-1-AP, 3ug; Detection:10837-1-AP 1:800) with mouse brain tissue lysate 8000ug.



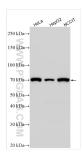
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 10837-1-AP (OPTN Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 10837-1-AP (OPTN Antibody) at dilution of 1:200 (under 40x lens).



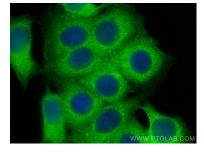
WB result of OPTN antibody (10837-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-OPTN transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 10837-1-AP (OPTN/Optineurin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Acetone) fixed paraffin-embedded rat eye tissue using OPTN antibody (10837-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using OPTN antibody (10837-1-AP) at dilution of 1:400 and Multi-Ab CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).