For Research Use Only

WDR45/WIPI4 Polyclonal antibody

Catalog Number: 19194-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

19194-1-AP

BC000464

Size:

450 ug/ml

11152

Source:

Rabbit

Q9Y484

Isotype:

GenBank Accession Number:
BC000464

GeneID (NCBI):
11152

UNIPROT ID:
Q9Y484

Full Name:

IgG WD repeat domain 45
Immunogen Catalog Number: Calculated MW:

AG6741 40 kDa

Observed MW: 40 kDa Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA Cited Applications: WB. IP

Species Specificity: human, mouse, rat 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

Positive Controls

WB: mouse skeletal muscle tissue, rat skeletal muscle

tissue

IHC: human liver tissue,
IF/ICC: HeLa cells,

Background Information

WD repeat domain phosphoinositide-interacting protein 4 (WDR45) is also named as WDRX1, WDRX14 and WIP14, and belongs to the WD repeat PROPPIN family. WDR45 is highly conserved in mammals, and the amino acid sequences of the human, mouse, pig, bovine and horse protein have more than 97% identity (PMID:20505359). WDR45 is component of the autophagy machinery that controls the major intracellular degradation process (PMID:23435086, PMID:28561066). Together with WIP11, WIP12 and WIP13/WDR45B, it forms the WIP1 (WD repeat domain, phosphoinositide interacting) protein family. And this is why WDR45 is also known as WIP14 (PMID:11814058). The best characterized molecular function of WDR45 is promoting lipid transfer together with ATG2 proteins between adjacent membranes. This function at the phagophore-ER membrane contact sites is important for autophagy (PMID:30185561, PMID:31721365). WDR45 is activated by the STK11/AMPK signaling pathway upon starvation. WDR45 is involved in autophagosome assembly downstream of WIP12, regulating the size of forming autophagosomes (PMID:28561066).

Notable Publications

Author	Pubmed ID	Journal	Application
Hye Eun Lee	34769084	Int J Mol Sci	WB
Luisa Aring	34837396	J Neurochem	WB
Alexander S Häusl	35263141	Sci Adv	WB,IP

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

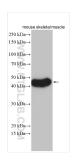
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

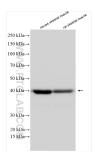
W: ptgcn.com

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

Selected Validation Data



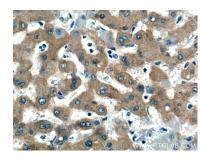
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 19194-1-AP (WDR45 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



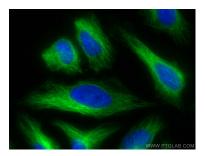
Various lysates were subjected to SDS PAGE followed by western blot with 19194-1-AP (WDR45 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 19194-1-AP (WDR45 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 19194-1-AP (WDR45 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using WDR45/WIPI4 antibody (19194-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).