

For Research Use Only

OSTM1 Polyclonal antibody

Catalog Number: 14621-1-AP

2 Publications



Basic Information

Catalog Number: 14621-1-AP	GenBank Accession Number: BC068581	Purification Method: Antigen affinity purification
Size: 250 ug/ml	GeneID (NCBI): 28962	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q86WC4	
Isotype: IgG	Full Name: osteopetrosis associated transmembrane protein 1	
Immunogen Catalog Number: AG6254	Calculated MW: 37 kDa	
	Observed MW: ~ 60 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

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 : 37°C incubated mouse brain tissue, mouse brain membrane protein

IHC : mouse kidney tissue,

IF/ICC : A431 cells,

Background Information

OSTM1 is a type I transmembrane protein. Ostm1 is essential for osteoclast maturation and is responsible for the most severe forms of osteoporosis when mutated in mice and humans. The OSTM1 protein has 10 N-glycosylation sites and has an apparent mass of ~60 kDa after being highly N-glycosylated (PMID: 26598607; PMID: 32764302). The OSTM1 protein can also be detected at ~30-45 kDa and ~70-80 kDa in some literatures (PMID: 16525474; PMID: 24159188; PMID: 20830208).

Notable Publications

Author	Pubmed ID	Journal	Application
Chunqiang Ma	32188736	J Virol	WB
Sandi Shen	37106712	Biology (Basel)	WB

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:

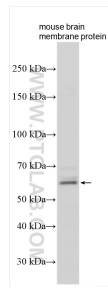
T: 4006900926

E: Proteintech-CN@ptglab.com

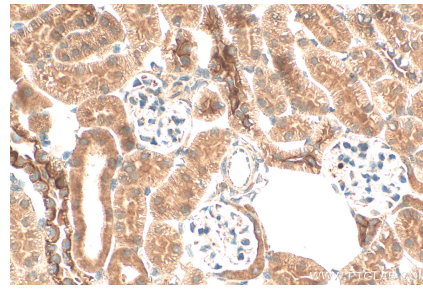
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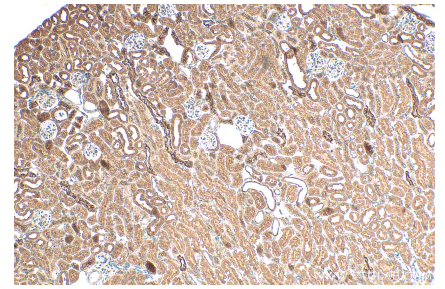
Selected Validation Data



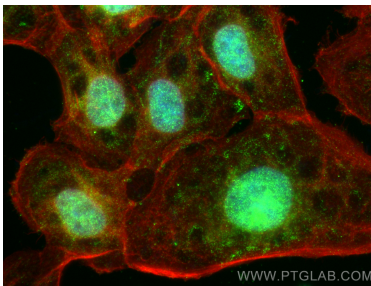
mouse brain membrane protein lysates were subjected to SDS PAGE followed by western blot with 14621-1-AP (OSTM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 14621-1-AP (OSTM1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 14621-1-AP (OSTM1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using OSTM1 antibody (14621-1-AP) at dilution of 1:200 and CoralLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).