

For Research Use Only

PSMC4 Polyclonal antibody

Catalog Number: 11389-1-AP

5 Publications



Basic Information

Catalog Number:

11389-1-AP

Size:

550 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1943

GenBank Accession Number:

BC014488

GeneID (NCBI):

5704

UNIPROT ID:

P43686

Full Name:

proteasome (prosome, macropain)
26S subunit, ATPase, 4

Calculated MW:

418 aa, 47 kDa

Observed MW:

43-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 brain tissue, rat brain tissue

IHC : human colon cancer tissue,

IF/ICC : SH-SY5Y cells, HepG2 cells

Background Information

PSMC4(proteasome (prosome, macropain) 26S subunit, ATPase, 4) is also named as TBP7, S6, TBP7, MIP224 and belongs to the AAA ATPase family. The 26S protease is involved in the ATP-dependent degradation of ubiquitinated proteins. The predicted 458-amino acid TBP7 protein is 57% identical to TBP1 and they can form heterodimers(PMID:8419915).

Notable Publications

Author	Pubmed ID	Journal	Application
Indrajit Sahu	34702852	Nat Commun	WB
Ling Lin	34836374	Nutrients	WB
Lien Nguyen	31831332	Neuron	IF

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:

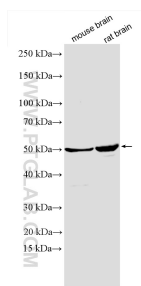
T: 4006900926

E: Proteintech-CN@ptglab.com

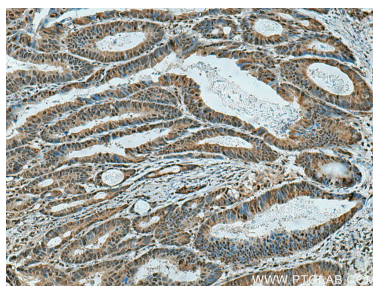
W: ptgcn.com

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Selected Validation Data



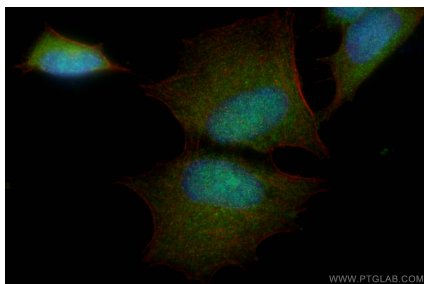
Various lysates were subjected to SDS PAGE followed by western blot with 11389-1-AP (PSMC4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11389-1-AP (PSMC4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using PSMC4 antibody 11389-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using PSMC4 antibody (11389-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).