For Research Use Only

PSMD2 Polyclonal antibody

Catalog Number:14748-1-AP 10 Publications

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Basic Information

Catalog Number:
14748-1-AP

Size:
150ul , Concentration: 400 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6484

GenBank Accession Number:
BC002368

GeneID (NCBI):
5708

Full Name:
proteasome (prosome, macropain) 26S subunit, non-ATPase, 2

Calculated MW:
100 kDa

Observed MW:
100 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
IHC, IP, WB,ELISA

Cited Applications:
CoIP, IF, IHC, IP, WB

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 : SKOV-3 cells, HeLa cells, K-562 cells, human heart tissue, mouse skeletal muscle tissue, PC-3 cells, A431 cells, HL-60 cells, mouse heart tissue, rat heart tissue

IP : K-562 cells,

IHC : human breast cancer tissue,

Background Information

Tumor necrosis factor type 1 receptor-associated protein 2 (TRAP2), encoded by PSMD2 gene, is a non-ATPase regulatory subunit of the 26 proteasome which is involved in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. TRAP2 may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor.

Notable Publications

Author	Pubmed ID	Journal	Application
Yanjie Tan	31703613	BMC Mol Biol	WB
Chunyan Gu	34991674	J Exp Clin Cancer Res	WB,CoIP
Hong-Zhong Zhou	31842909	Cell Commun Signal	WB,CoIP

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

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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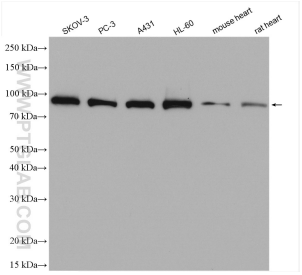
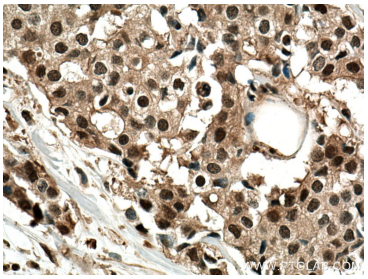
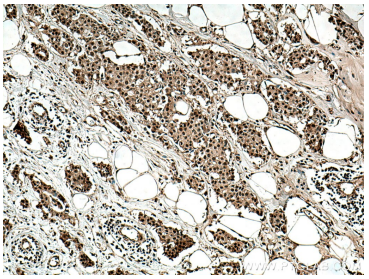
Selected Validation Data



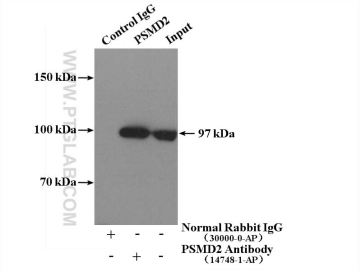
SKOV-3 cells were subjected to SDS PAGE followed by western blot with 14748-1-AP (PSMD2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14748-1-AP (PSMD2 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 human breast cancer tissue slide using 14748-1-AP (PSMD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-PSMD2 (IP:14748-1-AP, 4ug; Detection:14748-1-AP 1:1000) with K-562 cells lysate 3320ug.