For Research Use Only

Tom22 Polyclonal antibody

Catalog Number:11278-1-AP 9 Publications

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Basic Information

Catalog Number:
11278-1-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1797

GenBank Accession Number:
BC009363

GeneID (NCBI):
56993

UNIPROT ID:
Q9NS69

Full Name:
translocase of outer mitochondrial membrane 22 homolog (yeast)

Calculated MW:
15 kDa

Observed MW:
15-22 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

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 : HeLa, K-562 cells, HeLa cells, mouse liver tissue

IHC : human colon cancer tissue,

IF/ICC : HepG2 cells,

Background Information

Tom22 is a central receptor component of the translocase of the outer membrane of mitochondria responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. It is showed in UniProt that phosphorylation is performed at three positions of this protein which may increase the molecular weight. Catalog#66562-1-Ig recognises the 22 kDa protein larger than the calculated MW which is 15 kDa. Besides, it has been reported the MV of TOMM22 is 22 kDa (PMID:19285029).

Notable Publications

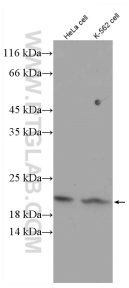
Author	Pubmed ID	Journal	Application
Bo Zhou	30287942	Cell Res	WB
Shan Xu	26564796	Mol Biol Cell	WB
Xi Cao	36408108	Front Aging Neurosci	WB

Storage

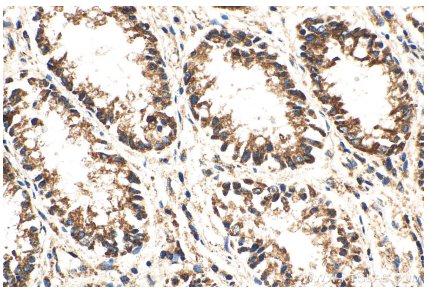
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

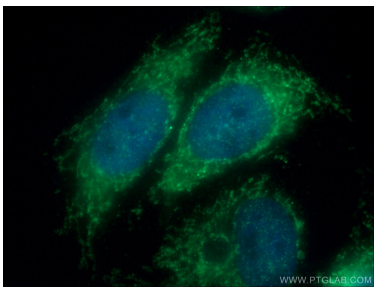
Selected Validation Data



HeLa and K-562 cells were subjected to SDS PAGE followed by western blot with 11278-1-AP (Tom22 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11278-1-AP (Tom22 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11278-1-AP (Tom22 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).