For Research Use Only

TOM70 Recombinant monoclonal antibody, PBS Only

Catalog Number:86840-3-PBS

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Basic Information

Catalog Number:
86840-3-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6027

GenBank Accession Number:
BC052994

GeneID (NCBI):
9868

UNIPROT ID:
O94826

Full Name:
translocase of outer mitochondrial membrane 70 homolog A (S. cerevisiae)

Calculated MW:
67 kDa

Observed MW:
70 kDa

Purification Method:
Protein A purification

CloneNo.:
251874H2

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

TOMM70A (or TOM70) is a mitochondrial import receptor responsible for the import of cytosol synthesized precursor proteins into the mitochondria. Tom70 is a member of the tetratricopeptide repeat (TPR) co-chaperone family and contains a conserved TPR clamp domain for interaction with Hsc70 and Hsp90. Recently overexpression of TOM70 has been linked to chemoresistance to drugs in breast cancer cell lines. It is also believed that Tom70 is significantly associated with breast cancer relapse and may predict the recurrence of ovarian cancer.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

Selected Validation Data

Various lysates were subjected to SDS PAGE followed by western blot with 86840-3-RR (TOM70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86840-3-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TOM70 antibody (86840-3-RR, Clone: 251874H2) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86840-3-PBS in a different storage buffer formulation.

Biolayer interferometry (BLI) kinetic assays of 86840-3-RR against Human TOM70 were performed. The affinity constant is 2.67 nM.