Tim23 Polyclonal ANTIBODY

Catalog Number: 11123-1-AP

Basic Information

Catalog Number: 11123-1-AP
Size: 45 µg/150 µl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG1620

GenBank Accession Number: BC062707
GeneID (NCBI): 10631
Full Name: translocase of inner mitochondrial membrane 23 homolog (yeast)
Calculated MW: 22 kDa
Observed MW: 22 kDa

Recommended Dilutions:
- WB: 1:500-1:1000
- IP: 0.5-4.0 µg for IP and 1:500-1:2000 for WB
- IHC: 1:20-1:200
- IF: 1:20-1:200

Positive Controls:
- WB: HepG2 cells, Jurkat cells, mouse heart tissue, mouse skeletal muscle tissue, COLO 320 cells, MCF-7 cells, rat heart tissue
- IP: mouse heart tissue
- IHC: human ovary tumor tissue, human heart tissue, human testis tissue
- IF: HepG2 cells

Applications

Tested Applications:
- IF, IHC, IP, WB, ELISA
Cited Applications:
- IF, WB
Species Specificity:
- human, mouse, rat
Cited Species:
- human, monkey, mouse, rat

Notable Publications

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<th>Author</th>
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<td>Yan Li</td>
<td>30208760</td>
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<td>Milica Momcilovic</td>
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<td>Dongfang Hu</td>
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Background Information

Tim23 is a mitochondrial inner membrane protein essential for import of preproteins into the matrix. Tim23 together with Tim17 and Tim44 form the Tim23 complex which mediates the import of nuclear encoded preproteins into the mitochondria. Tim23 is commonly used as loading control for mitochondrial inner membrane protein.

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.1% 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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 655-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

HepG2 cells were subjected to SDS PAGE followed by western blot with 11123-1-AP (Tim23 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Various lysates were subjected to SDS PAGE followed by western blot with 11123-1-AP (Tim23 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11123-1-AP (Tim23 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunohistochemical analysis of paraffin-embedded human ovary tumor using 11123-1-AP (TIMM23 antibody) at dilution of 1:50 (under 10x lens).

IP Result of anti-Tim23 (IP:11123-1-AP, 4ug; Detection:11123-1-AP 1:1000) with mouse heart tissue lysate 3200ug.