10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TIMM8A Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP8545b

Specification

TIMM8A Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O60220

TIMM8A Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1678

Other Names
Mitochondrial import inner membrane translocase subunit Tim8 A, Deafness dystonia protein 1, X-linked deafness dystonia protein, TIMM8A, DDP, DDP1, TIM8A

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8545b was selected from the C-term region of human TIMM8A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TIMM8A Antibody (C-term) Blocking Peptide - Protein Information

Name TIMM8A

Synonyms DDP, DDP1, TIM8A

Function
Mitochondrial intermembrane chaperone that participates in the import and insertion of some multi-pass transmembrane proteins into the mitochondrial inner membrane. Also required for the transfer of beta-barrel precursors from the TOM complex to the sorting and assembly machinery (SAM complex) of the outer membrane. Acts as a chaperone-like protein that protects the hydrophobic precursors from aggregation and guide them through the mitochondrial intermembrane space. The TIMM8- TIMM13 complex mediates the import of proteins such as TIMM23, SLC25A12/ARALAR1 and SLC25A13/ARALAR2, while the predominant TIMM9- TIMM10 70 kDa complex mediates the import of much more proteins. Probably necessary for normal neurologic development.

Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side

Tissue Location
Highly expressed in fetal and adult brain, followed by fetal lung, liver and kidney. Also expressed in heart, placenta, lung, liver, kidney, pancreas, skeletal muscle and heart

TIMM8A Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

TIMM8A Antibody (C-term) Blocking Peptide - Images

TIMM8A Antibody (C-term) Blocking Peptide - Background

Mitochondrial intermembrane chaperone that participates in the import and insertion of some multi-pass transmembrane proteins into the mitochondrial inner membrane. It is also required for the transfer of beta-barrel precursors from the TOM complex to the sorting and assembly machinery (SAM complex) of the outer membrane and acts as a chaperone-like protein that protects the hydrophobic precursors from aggregation and guide them through the mitochondrial intermembrane space. The TIMM8-TIMM13 complex mediates the import of proteins such as TIMM23, SLC25A12/ARALAR1 and SLC25A13/ARALAR2, while the predominant TIMM9-TIMM10 70 kDa complex mediates the import of much more proteins. It is probably necessary for normal neurologic development.

TIMM8A Antibody (C-term) Blocking Peptide - References

Blesa,J.R., et.al., Neuromolecular Med. 9 (4), 285-291 (2007)Aguirre,L.A., et.al., Am. J. Med. Genet. A 140 (4), 392-397 (2006)