TOM70 Antibody

Catalog No: #24811

Description



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Product Name TOM70 Antibody Rabbit Host Species Clonality Polyclonal Purification Affinity chromatography purified via peptide column ELISA WB IHC Applications Species Reactivity Hu Ms Rt Peptide Immunogen Type Immunogen Description Raised against a 15 amino acid peptide near the center of human TOM70. Target Name **TOM70** Other Names Translocase of the mitochondrial outer membrane 70, TOMM70A Accession No. Swiss-Prot:O94826Gene ID:9868 Uniprot O94826 GenelD 9868; Concentration 1mg/ml Formulation Supplied in PBS containing 0.02% sodium azide. Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated Storage freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of TOM70 in rat brain tissue lysate with TOM70 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of TOM70 in mouse brain tissue with TOM70 antibody at 2.5 ug/mL.

Background

The translocase of outer mitochondrial membrane (TOM) complex is a multisubunit complex involved in the recognition, unfolding, and translocation of preproteins into the mitochondria. TOM70, an important member of the TOM complex, contains a tetratricopeptide repeat domain similar to those found in cytosolic chaperones such as Hsp90 and Hsc70 and provides a docking site for these proteins. This interaction is thought to be a critical first step in the TOM70-dependent mitochondrial import, followed by contact between the preprotein and TOM70. After targeting to TOM70, preproteins are translocated through the outer membrane via the TOM40 import pore complex. The precise mechanism of how preproteins progress from TOM70 to TOM40 to full translocation is still unclear. At least two isoforms of TOM70 are known to exist.

Note: This product is for in vitro research use only