

# Anti-Torsin A TOR1A Rabbit Monoclonal Antibody

**Catalog # ABO13915** 

# **Specification**

# **Anti-Torsin A TOR1A Rabbit Monoclonal Antibody - Product Information**

Application WB, FC
Primary Accession O14656
Host Rabbit
Isotype Reactivity Human
Clonality Monoclonal
Format Liquid

Description

Anti-Torsin A TOR1A Rabbit Monoclonal Antibody . Tested in WB, Flow Cytometry applications. This antibody reacts with Human.

# Anti-Torsin A TOR1A Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 1861

#### **Other Names**

Torsin-1A, Dystonia 1 protein, Torsin ATPase-1A, 3.6.4.-, Torsin family 1 member A, TOR1A, DQ2, DYT1, TA, TORA

Calculated MW 37809 MW KDa

## **Application Details**

WB 1:500-1:2000<br>FC 1:50

# **Subcellular Localization**

Endoplasmic reticulum lumen. Nucleus membrane; Peripheral membrane protein. Cell projection, growth cone. Cytoplasmic vesicle membrane. Cytoplasmic vesicle, secretory vesicle. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle. Cytoplasm, cytoskeleton. Upon oxidative stress, redistributes to protusions from the cell surface (By similarity). Peripherally associated with the inner face of the ER membrane, probably mediated by the interaction with TOR1AIP1. The association with nucleus membrane is mediated by the interaction with TOR1AIP2..

# **Tissue Specificity**

Widely expressed. Highest levels in kidney and liver. In the brain, high levels found in the dopaminergic neurons of the substantia nigra pars compacta, as well as in the neocortex, hippocampus and cerebellum. Also highly expressed in the spinal cord..

### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

### **Immunogen**

A synthesized peptide derived from human Torsin A



**Purification**Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

# Anti-Torsin A TOR1A Rabbit Monoclonal Antibody - Protein Information

Name TOR1A

Synonyms DQ2, DYT1, TA, TORA

#### **Function**

Protein with chaperone functions important for the control of protein folding, processing, stability and localization as well as for the reduction of misfolded protein aggregates. Involved in the regulation of synaptic vesicle recycling, controls STON2 protein stability in collaboration with the COP9 signalosome complex (CSN). In the nucleus, may link the cytoskeleton with the nuclear envelope, this mechanism seems to be crucial for the control of nuclear polarity, cell movement and, specifically in neurons, nuclear envelope integrity. Participates in the cellular trafficking and may regulate the subcellular location of multipass membrane proteins such as the dopamine transporter SLC6A3, leading to the modulation of dopamine neurotransmission. In the endoplasmic reticulum, plays a role in the quality control of protein folding by increasing clearance of misfolded proteins such as SGCE variants or holding them in an intermediate state for proper refolding. May have a redundant function with TOR1B in non- neural tissues.

#### **Cellular Location**

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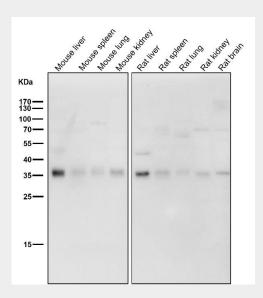
# Anti-Torsin A TOR1A Rabbit Monoclonal Antibody - Protocols

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

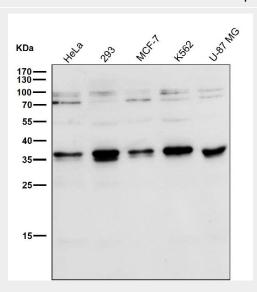
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### Anti-Torsin A TOR1A Rabbit Monoclonal Antibody - Images

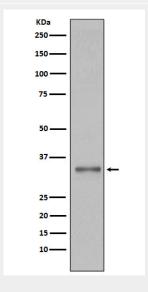


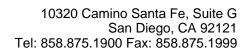


All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.







Western blot analysis of Torsin A expression in 293T cell lysate.