

## 扭转蛋白 A 抗体

产品货号： mIR11490

英文名称： Torsin A

中文名称： 扭转蛋白 A 抗体

别名： DQ2; Dystonia 1; Dystonia 1 protein; Dyt1; Tor1a; Torsin A; Torsin family 1 member A; TOR1A\_HUMAN.

研究领域： 细胞生物 神经生物学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Pig, Cow,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500

(石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 35kDa

细胞定位： 细胞核 细胞浆 细胞膜

性状： Lyophilized or Liquid

浓度： 1mg/ml

免疫原： KLH conjugated synthetic peptide derived from human Torsin A:56-130/332

亚型： IgG

**纯化方法：** affinity purified by Protein A

**储 存 液：** 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

**保存条件：** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**PubMed：** PubMed

**产品介绍：** A mutation of the DYT1 gene, which codes for TorsinA, has been identified as the cause of one form of autosomal dominantly inherited dystonia. Early-onset torsion dystonia is a movement disorder, characterized by twisting muscle contractures, that begins in childhood. Symptoms are believed to result from altered neuronal communication in the basal ganglia. TorsinA comprises 332 amino acids. TorsinA is widely expressed throughout the mouse central nervous system and is detected in the majority of neurons in nearly all regions. The proteins display cytoplasmic distribution, although in some types of neurons localization is perinuclear. TorsinA often performs chaperone-like functions that assist in the assembly, operation, or disassembly of protein complexes. The gene which encodes TorsinA has high homology to three additional mammalian genes and a nematode gene and distal similarity to the family of heat-shock proteins and the Clp protease family. The gene which encodes TorsinA maps to human chromosome 9q34.

**Function:**

May serve as a molecular chaperone assisting in the proper folding of secreted and/or membrane proteins. In the nucleus, displaces the nuclear membrane proteins SUN2, SYNE2 and nesprin-3/C14orf49, leaving nuclear pores and SUN1 unchanged.

**Subunit:**

May form homohexamers. Interacts with TOR1AIP1 and TOR1AIP2. Interacts with KLHL14, preferentially when ATP-free.

**Subcellular Location:**

Endoplasmic reticulum lumen. Nucleus membrane. Note=Mainly located in the lumen of the endoplasmic

reticulum. The association with nuclear envelope is mediated by the interaction with TOR1AIP2. The Glu-303 del variant is lumenally-oriented in discrete large spheroid intracellular structures rather than in the endoplasmic reticulum.

**Tissue Specificity:**

Widely expressed. Highest levels in kidney and liver. Not detected in spleen. 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 high expression in the spinal cord.

**DISEASE:**

Defects in TOR1A are the cause of dystonia type 1 (DYT1) [MIM:128100]. DYT1 is a primary torsion dystonia, and the most common and severe form. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. DYT1 is characterized by involuntary, repetitive, sustained muscle contractions or postures involving one or more sites of the body, in the absence of other neurological symptoms. Typically, symptoms develop first in an arm or leg in middle to late childhood and progress in approximately 30% of patients to other body regions (generalized dystonia) within about five years. 'Torsion' refers to the twisting nature of body movements observed in DYT1, often affecting the trunk. Distribution and severity of symptoms vary widely between affected individuals, ranging from mild focal dystonia to severe generalized dystonia, even within families.

**Similarity:**

Belongs to the clpA/clpB family. Torsin subfamily.

**SWISS:**

O14656

**Gene ID:**

1861

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**产品图片**

