

**TorsinA (D-M2A8) Mouse mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	35	Mouse IgG1	#O14656	1861

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

TorsinA (D-M2A8) Mouse mAb detects endogenous levels of total torsinA protein. TorsinA (D-M2A8) Mouse mAb does not detect TorsinB (Hewett, J. et al., 2004).

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with human recombinant torsinA (aa 51-324).

**Background**

The neurological condition Dystonia is associated with sustained muscle contractions and abnormal posturing (1). TorsinA, torsinB, torp2A and torp3A belong to the family of ATPases associated with cellular activities (AAA+) and mutations in torsinA cause early onset dystonia (2). TorsinA has been shown to suppress intracellular protein aggregation in *C. elegans* and possesses chaperon activity. Interestingly, torsinA is highly expressed in dopaminergic neurons and associates with alpha-synuclein in Lewy bodies, which pathologically characterize Parkinson's Disease (3-5).

**Background References**

1. Fahn, S. (1988) *Adv. Neurol.* 50, 1-8.
2. Ozelius, L.J. et al. (1997) *Nat. Genet.* 17, 40-8.
3. Caldwell, G.A. et al. (2003) *Hum. Mol. Genet.* 12, 307-19.
4. McLean, P.J. et al. (2002) *J. Neurochem.* 83, 846-54.
5. O'Farrell, C. et al. (2004) *Brain Res. Mol. Brain Res.* 127, 1-9.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human

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