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PRODUCT DATASHEET

Anti-MANF Antibody

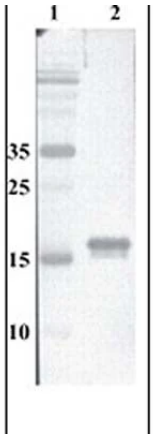
Product Details

Available Variants	100 µg (SKU:M-1673-100)
Conjugate	Unconjugated
Isotype	IgG1
Host Species	Mouse
Format	IgG
Physical State	Liquid
Buffer	PBS pH 7.4, with 0.1% sodium azide
Production Notes	Purified with Protein G affinity chromatography
Applications	WB
Dilution Ranges	WB: 0.5-2 µg/mL IHC: 1-10 µg/mL ICC: 1-10 µg/mL ELISA: 0.1-0.2 µg/mL (indirect)
Species Reactivity	Human
Immunogen	Recombinant human MANF protein produced using CHO-based cell line. Immunogen is purified from cell culture supernatant.
Specificity	MANF (Mesencephalic astrocyte-derived neurotrophic factor).
Storage	Store at -20°C or -70°C upon receipt. After opening maintain undiluted in smaller aliquots at -20°C or -70°C for up to 6 months. Avoid multiple freeze-thaw cycles.
UniProt ID	P55145 UniProt Summary: Selectively promotes the survival of dopaminergic neurons of the ventral mid-brain. Modulates GABAergic transmission to the dopaminergic neurons of the substantia nigra. Enhances spontaneous, as well as evoked, GABAergic inhibitory postsynaptic currents in dopaminergic

neurons. Inhibits cell proliferation and endoplasmic reticulum (ER) stress-induced cell death. Retained in the ER/sarcoplasmic reticulum (SR) through association with the endoplasmic reticulum chaperone protein HSPA5 under normal conditions. Stabilizes HSPA5/BiP in its substrate-bound ADP state, which facilitates HSPA5/BiP incorporation into chaperone-client complexes during endoplasmic reticulum stress, its interaction with HSPA5/BiP inhibits ATP binding to HSPA5/BiP and subsequent nucleotide exchange. As a result acts as a repressor of the unfolded protein response (UPR) pathway. Up-regulated and secreted by the ER/SR in response to ER stress and hypoxia. Following secretion by the ER/SR, directly binds to 3-O-sulfogalactosylceramide, a lipid sulfatide in the outer cell membrane of target cells. Sulfatide binding promotes its cellular uptake by endocytosis, and is required for its role in alleviating ER stress and cell toxicity under hypoxic and ER stress conditions. Essential for embryonic lung development. Required for the correct postnatal temporal and structural development of splenic white pulp. Required for the repair-associated myeloid response in skeletal muscle, acts as a regulator of phenotypic transition towards prorepair macrophages in response to muscle injury and as a result limits excessive proinflammatory signaling. Represses RELA expression and therefore NF-kB signaling in the myocardium, as a result limits macrophage infiltration of injured tissue and M1 macrophage differentiation in response to myocardial injury. Required for endochondral ossification in long bones and the skull during postnatal development.

Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	7873

Product Images



Western Blot testing of anti-MANF monoclonal antibody. Line 1. PageRuler Prestained Protein Ladder (#SM0671 Fermentas); Line 2. Purified recombinant MANF (500 ng per line) expressed using CHOEBNALT85 cell line.

Created on 19. November 2026 | All information without guarantee