Datasheet for ABIN956417

anti-MANF antibody

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Overview

Quantity:	100 µg
Target:	MANF
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Recombinant human MANF protein produced using CHO-basedIcosagen Cell factory Ltd. proprietary suspension cell line. Immunogen is purifiedfrom cell culture supernatant
Isotype:	IgG
Specificity:	Human MANF
Cross-Reactivity (Details):	No cross-reactivity in MANF-knock out mouse and with CDNF in IHC, slightly cross-reacts with purified CDNF in WB
Purification:	MANF-affinity purified

Target Details

Target:	MANF
Alternative Name:	MANF (MANF Products)
Background:	MANF is a trophic factor for midbrain dopamine neuronsin vivo. It prevents the 6-OHDA-induced degeneration of dopamine neurons in rodent models of Parkinson'sdisease (Lindholm

Target Details

	et al., 2008, Voutilainen et al., 2009). When administeredafter 6-OHDA-lesioning it restores the dopaminergic function and prevents degenerationof dopamine neurons in substantia nigra pars compacta
UniProt:	P55145

Application Details

Application Notes:	ELISA1:200 000, Western immunoblotting 1:2000 – 1:6000, IHC, IF. Polyclonal antibody working titer has to be established practically for each particularantigen and assay format
Comment:	Synonym: ARMET, ARP
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.45 mg/ml
Buffer:	Concentrated ammonium sulphide in PBS pH 7.4.
Handling Advice:	As product is (NH4)2SO4precipitate, mix well by pipetting or vortexing prior use.
Storage:	4 °C
Storage Comment:	This product is shipped in non-frozen liquid form in ambient conditions

Publications

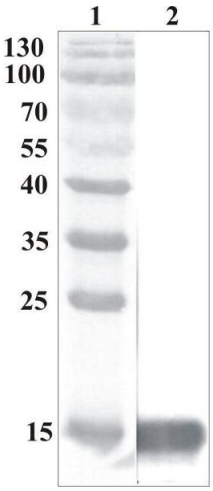
Product cited in:	Herranen, Ikäheimo, Lankinen, Pakarinen, Fritzsch, Saarma, Lindahl, Pirvola: "Deficiency of the ER-stress-regulator MANF triggers progressive outer hair cell death and hearing loss." in: **Cell death & disease**, Vol. 11, Issue 2, pp. 100, (2020) (PubMed). Lindahl, Chalazonitis, Palm, Pakarinen, Danilova, Pham, Setlik, Rao, Võikar, Huotari, Kopra, Andressoo, Piepponen, Airavaara, Panhelainen, Gershon, Saarma: "Cerebral dopamine neurotrophic factor-deficiency leads to degeneration of enteric neurons and altered brain dopamine neuronal function in mice." in: **Neurobiology of disease**, Vol. 134, pp. 104696, (2020) (PubMed). Pakarinen, Danilova, Võikar, Chmielarz, Piepponen, Airavaara, Saarma, Lindahl: "MANF Ablation Causes Prolonged Activation of the UPR without Neurodegeneration in the Mouse Midbrain

Publications

Dopamine System." in: **eNeuro**, Vol. 7, Issue 1, (2020) (PubMed).

Tseng, Danilova, Domanskyi, Saarma, Lindahl, Airavaara: "MANF Is Essential for Neurite Extension and Neuronal Migration in the Developing Cortex." in: **eNeuro**, Vol. 4, Issue 5, (2018) (PubMed).

Images



Western Blotting

Image 1. Western Blot testing of anti-MANF polyclonal antibody. Line 1. PageRuler Prestained Protein Ladder (#SM0671 Fermentas), Line 2. Purified recombinant MANF (1 µg per line) expressed using CHOEBNALT85 cell line