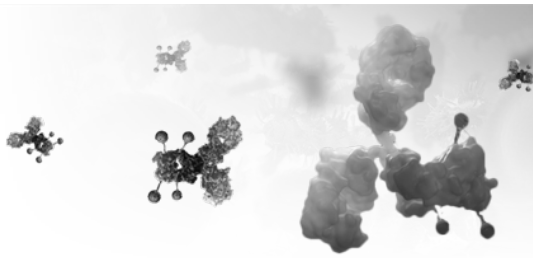

Mouse anti-Mouse Mint3 monoclonal antibody, clone 43/Njou4 (CABT-B9238)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Mouse Mint3 aa. 63-185
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Mouse, Human
Clone	43/Njou4
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; Bioimaging; IF
Format	Liquid
Concentration	250 μg/ml
Size	50 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Munc18-1-interacting proteins, Mint1, Mint2, and Mint3, are members of the X11 family of

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	proteins, which contain a phosphotyrosine-binding (PTB) domain and two PSD-95-DLG-ZO-1 (PDZ) domains. The PTB domain binds Asn-Pro-X-pTyr, a β-turn motif found on activated growth factor receptors and other signaling molecules. PDZ domains bind the C-terminus of proteins involved in receptor and channel clustering and protein localization in polarized cells. Both Mint1 and Mint2 are expressed primarily in the nervous system and may interact with Munc18-1 and syntaxin to form a multimeric complex that mediates appropriate docking/fusion of synaptic vesicles. In addition, both Mint1 and Mint2 may be involved in Alzheimer's disease, since Mint2 colocalizes with amyloid precursor protein (APP) and is found in neuritic plaques, while Mint1 can bind APP, and inhibits the processing of APP to the amyloid β peptide. Mint3 can also bind APP, but differs from Mint1 and Mint2 in its N-terminal region. It is also more widely expressed. Thus, Mint3 may function in signaling pathways, vesicle exocytosis, and/or protein targeting in a wide range of tissues. Mint3 has a calculated molecular weight of 61 kD, but reportedly is observed migrating at 86-89 kD.
Keywords	APBA3; amyloid beta (A4) precursor protein-binding, family A, member 3; X11L2; mint3; MGC:15815; amyloid beta A4 precursor protein-binding family A member 3; mint-3; X11-like 2 protein; adapter protein X11gamma; neuron-specific X11L2 protein; neuronal munc18-1-interacting protein 3; phosphotyrosine-binding/-interacting domain (PTB)-bearing protein; amyloid beta (A4) precursor protein-binding, family A, member 3 (X11-like 2);

GENE INFORMATION

Entrez Gene ID	9546
UniProt ID	O96018

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