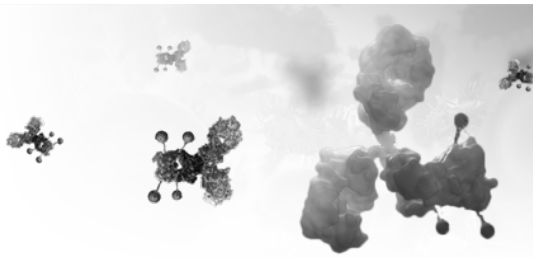

Mouse anti-Rat Myosin Vb/Myr 6 monoclonal antibody, clone 29/Nzs7 (CABT-B9241)

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

PRODUCT INFORMATION

Immunogen	Rat Myr6 aa. 940-1051
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat
Clone	29/Nzs7
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; 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	Myosins are proteins that form oligomers consisting of two heavy chains and varying numbers

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	of light chains. Many classes of myosin superfamily proteins which have similar N-terminal motor domains but divergent C-terminal domains have been characterized. Class V myosins interact via their C-terminal tails with specific proteins involved in organelle transport. In vertebrates, the myosin V family includes mouse myosin Va (dilute myosin) and Vb, rat myosin Vb (myosin from rat 6; myr 6), and chicken p190. Myr 6 includes an N-terminal globular domain, six IQ motifs in the neck region, two coiled-coil domains on each side (cc) of a PEST calpain cleavage region, and a C-terminal tail that is homologous to dilute myosin, AF-6, and GAD. Myr 6 is expressed highly in mouse heart, kidney, testis, liver, and lung. In rat brain, it is expressed highly in dentate gyrus, medial mamillary nuclei, amygdala, and choroid plexus. The tail region of myr 6 interacts with the C-terminal domain of BERP, a RING-B-box-coiled-coil protein that has been implicated in PC12 cell neurite outgrowth. Thus, myr 6 may function in the transport of organelles in a variety of neural and non-neuronal tissues.
Keywords	MYO5B; myosin VB; unconventional myosin-Vb; myosin-Vb; MYO5B variant protein;

GENE INFORMATION

Entrez Gene ID	4645
UniProt ID	Q7Z7A5

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