

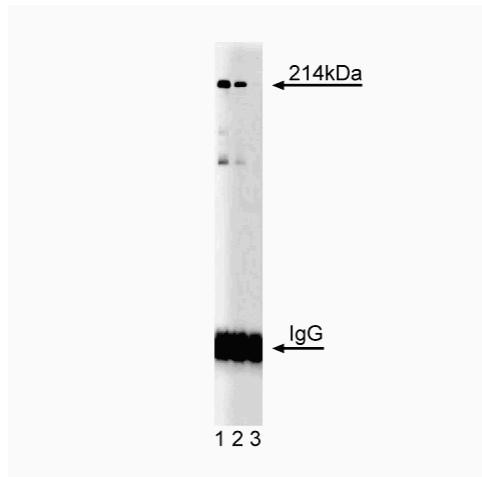
Technical Data Sheet

Purified Mouse Anti-Myosin Vb/Myr 6**Product Information**

Material Number:	611608
Size:	50 µg
Concentration:	250 µg/ml
Clone:	18/Myr6
Immunogen:	Rat Myr6 aa. 940-1051
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat
Target MW:	214 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Myosins are proteins that form oligomers consisting of two heavy chains and varying numbers 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.



Western blot analysis of Myr6 on rat testis lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of Myr6.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20° C.

Application Notes**Application**

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Mermall V, Post PL, Mooseker MS. Unconventional myosins in cell movement, membrane traffic, and signal transduction. *Science*. 1998; 279(5350):527-533. (Biology)

Zhao LP, Koslovsky JS, Reinhard J. Cloning and characterization of myr 6, an unconventional myosin of the dilute/myosin-V family. *Proc Natl Acad Sci U S A*. 1996; 93(20):10826-10831. (Biology)