

Technical Data Sheet

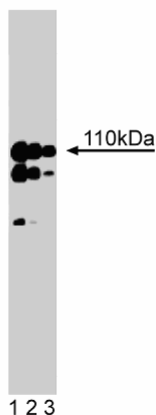
Purified Mouse Anti-Striatin

Product Information

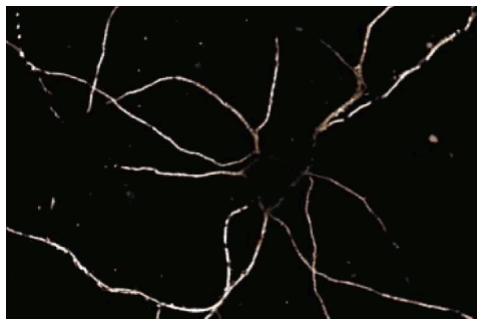
Material Number:	610838
Size:	50 µg
Concentration:	250 µg/ml
Clone:	6/Striatin
Immunogen:	Rat Striatin aa. 450-600
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Rat Tested in Development: Mouse, Human, Dog
Target MW:	110 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Signal transmission between neurons is regulated by the Ca²⁺-dependent release of neurotransmitters at the synapse. Striatin is a protein identified in the synaptosomal fraction of rat brain. Reports of sequence homology searches have shown that striatin belongs to a family of proteins with the repeated WD motif (the β-transducin repeat or the WD-40 repeat) found in regulatory proteins. Striatin also binds calmodulin in a Ca²⁺-dependent manner. Immunolocalization and mRNA expression found striatin in the central nervous system, particularly enriched in neurons of the striatum and motor neurons. Furthermore, subcellular localization studies indicated that Striatin is tightly associated with the plasma membrane. Thus, striatin may play an important role in the Ca²⁺-dependent events occurring at the synapse.



Western blot analysis of Striatin on a rat cerebrum lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-Striatin antibody.



Immunofluorescence staining of rat neurons.

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	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/protocols/Western_Blotting.shtml

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Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

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

Castets F, Bartoli M, Barnier JV. A novel calmodulin-binding protein, belonging to the WD-repeat family, is localized in dendrites of a subset of CNS neurons. *J Cell Biol.* 1996; 134(4):1051-1062.(Biology)

Castets F, Rakitina T, Gaillard S, Moqrich A, Mattei MG, Monneron A. Zinedin, SG2NA, and striatin are calmodulin-binding, WD repeat proteins principally expressed in the brain. *J Biol Chem.* 2000; 275(26):19970-19977.(Biology: Western blot)