Technical Data Sheet

Purified Mouse Anti-Sec8

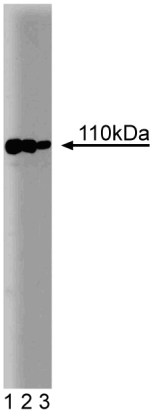
Product Information

Material Number:	**610659**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	14/Sec8
Immunogen:	Rat Sec8 aa. 31-201
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Dog Tested in Development: Mouse, Rat, Chicken, Human
Target MW:	110 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

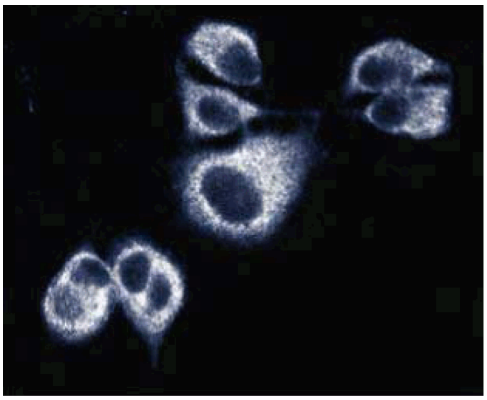
Description

Signal transmission between neurons is regulated by the release of neurotransmitters at the synapse. This process, which is controlled by a complex pathway of membrane trafficking in the presynaptic nerve terminal, leads to membrane fusion and neurotransmitter secretion. Sec8 is a hydrophilic protein of 975 amino acids that is highly expressed in brain and kidney. It is homologus with the yeast secretory protein, Sec8p. In yeast, Sec8 is essential for the Golgi-to-plasma membrane traffic of proteins during constitutive secretion. In rat brain, Sec8 colocalizes with Rab3 and Syntaxin-1a, two important proteins that regulate the fusion of the synaptic vesicle to the plasma membrane. The primary structure of Sec8, a coiled-coil domain (residues 34-99), is commonly found in other proteins important in secretory pathways.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Sec8 on a MDCK cell lysate (Canine kidney; ATCC CCL-34). *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-Sec8 antibody.*



Immunofluorescence staining of AN3 CA cells (Human endometrial adenocarcinoma; ATCC HTB-111).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Tested During Development
Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
611635	MDCK Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	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/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References

Charron AJ, Nakamura S, Bacallao R, Wandinger-Ness A. Compromised cytoarchitecture and polarized trafficking in autosomal dominant polycystic kidney disease cells. *J Cell Biol.* 2000; 149(1):111-124.(Biology: Immunofluorescence, Western blot)

Duncan RR, Don-Wauchope AC, Tapechum S, Shipston MJ, Chow RH, Estibeiro P. High-efficiency Semliki Forest virus-mediated transduction in bovine adrenal chromaffin cells. *Biochem J.* 1999; 342(Pt 3):497-501.(Biology: Western blot)

Hazuka CD, Hsu SC, Scheller RH. Characterization of a cDNA encoding a subunit of the rat brain rsec6/8 complex. *Gene.* 1997; 187(1):67-73.(Biology)

Ting AE, Hazuka CD, Hsu SC. rSec6 and rSec8, mammalian homologs of yeast proteins essential for secretion. *Proc Natl Acad Sci U S A.* 1995; 92(21):9613-9617.(Biology)