



[Go to Product page](#)

Datasheet for ABIN968092

anti-Sec8 antibody (AA 31-201)

2 Images

3 Publications

Overview

Quantity:	50 µg
Target:	Sec8 (EXOC4)
Binding Specificity:	AA 31-201
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Sec8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Rat Sec8 aa. 31-201
Clone:	14-Sec8
Isotype:	IgG2b
Cross-Reactivity:	Dog (Canine), Mouse (Murine), Chicken, Human
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us 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.

Product Details

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

Target Details

Target: Sec8 (EXOC4)

Alternative Name: Sec8 ([EXOC4 Products](#))

Background: 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 homologous 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.

Molecular Weight: 110 kDa

Pathways: [Peptide Hormone Metabolism](#), [Synaptic Vesicle Exocytosis](#)

Application Details

Comment: Related Products: ABIN968619, ABIN967389

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Handling

Storage Comment: Store undiluted at -20° C.

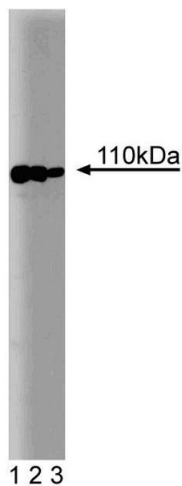
Publications

Product cited in: Charron, Nakamura, Bacallao, Wandinger-Ness: "Compromised cytoarchitecture and polarized trafficking in autosomal dominant polycystic kidney disease cells." in: **The Journal of cell biology**, Vol. 149, Issue 1, pp. 111-24, (2000) ([PubMed](#)).

Duncan, Don-Wauchope, Tapechum, Shipston, Chow, Estibeiro: "High-efficiency Semliki Forest virus-mediated transduction in bovine adrenal chromaffin cells." in: **The Biochemical journal**, Vol. 342 Pt 3, pp. 497-501, (1999) ([PubMed](#)).

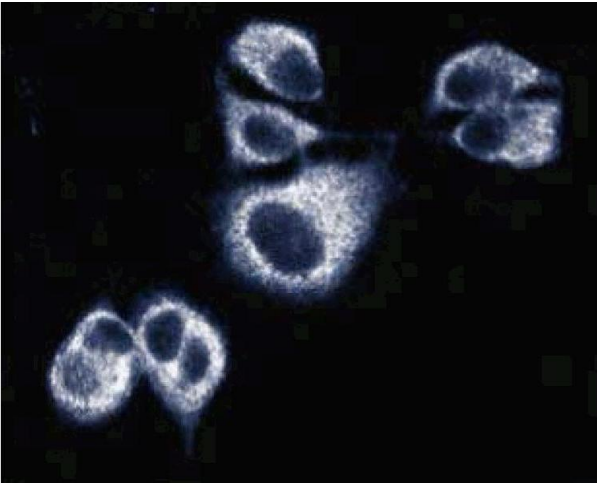
Ting, Hazuka, Hsu, Kirk, Bean, Scheller: "rSec6 and rSec8, mammalian homologs of yeast proteins essential for secretion." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 92, Issue 21, pp. 9613-7, (1995) ([PubMed](#)).

Images



Western Blotting

Image 1. 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

Image 2. Immunofluorescence of AN3 CA cells (Human endometrial adenocarcinoma, ATCC HTB-111).