

Datasheet for ABIN968079  
**anti-Syntaxin 6 antibody (AA 6-136)**

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## Overview

Quantity:	50 µg
Target:	Syntaxin 6 (STX6)
Binding Specificity:	AA 6-136
Reactivity:	Human, Mouse, Chicken, Rat, Dog, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Syntaxin 6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	Rat Syntaxin 6 aa. 6-136
Clone:	30-Syntaxin 6
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Dog (Canine), Chicken, Frog
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>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.</li><li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li></ol>

## Product Details

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

Target:	Syntaxin 6 (STX6)
Alternative Name:	Syntaxin 6 ( <a href="#">STX6 Products</a> )
Background:	<p>Signal transmission between cells is often regulated by the secretion of neurotransmitters or hormones into the extracellular space. This process is controlled by a complex pathway of membrane trafficking which leads to membrane fusion and secretion. Syntaxin 1 is involved in three important complexes that modulate the secretion process: syntaxin and n-sec-1, syntaxin, VAMP, and SNAP-25, and syntaxin, VAMP, SNAP-25, alphaSNAP, and NSF (20S complex).</p> <p>Syntaxin 6 is a 255 amino acid member of the syntaxin family. It contains a C-terminal transmembrane domain and is located at the Golgi apparatus. In addition, Syntaxin 6 displays significant (47% identity) homology with SNAP-25. In vitro, Syntaxin 6 has been reported to interact with alpha-SNAP. Syntaxin 6 has been reported to have a calculated molecular weight of 30.6 kDa, but has been observed to migrate in a range inbetween ~ 31-35 kDa.</p>
Molecular Weight:	31-35 kDa
Pathways:	<a href="#">Synaptic Vesicle Exocytosis</a>

## Application Details

Comment:	Related Products: ABIN968533, 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

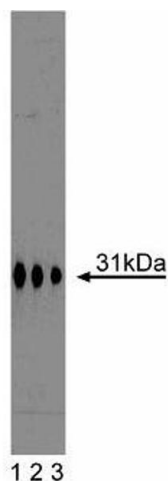
Storage Comment: Store undiluted at -20°C.

## Publications

Product cited in: Shewan, van Dam, Martin, Luen, Hong, Bryant, James: "GLUT4 recycles via a trans-Golgi network (TGN) subdomain enriched in Syntaxins 6 and 16 but not TGN38: involvement of an acidic targeting motif." in: **Molecular biology of the cell**, Vol. 14, Issue 3, pp. 973-86, (2003) ([PubMed](#)).

Ramalho-Santos, Moreno, Sutovsky, Chan, Hewitson, Wessel, Simerly, Schatten: "SNAREs in mammalian sperm: possible implications for fertilization." in: **Developmental biology**, Vol. 223, Issue 1, pp. 54-69, (2000) ([PubMed](#)).

## Images



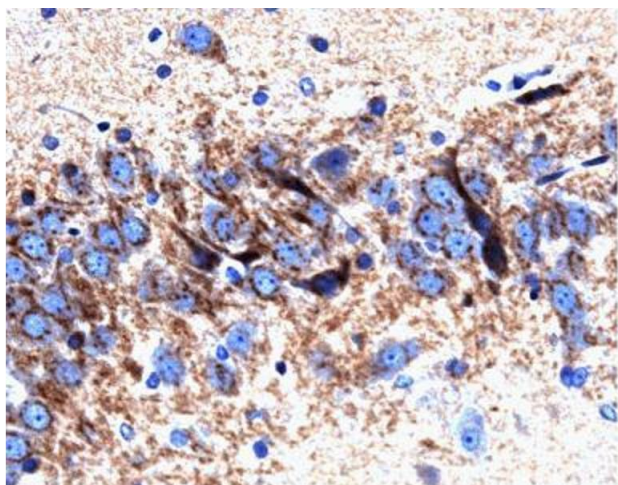
### Western Blotting

**Image 1.** Western blot analysis of Syntaxin 6 on a A431 cell lysate (Human epithelial carcinoma, ATCC CRL-1555). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-Syntaxin 6 antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of PSFK-1 cells (Human neuroectodermal tumor line, ATCC CRL-2060).



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemical staining on a rat brain section for Syntaxin 6. A formalin-fixed paraffin-embedded section with citrate buffer pretreatment (40X magnification).