Datasheet for ABIN968460

anti-STXBP5 antibody (AA 910-1105)

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Overview

Quantity:	50 µg
Target:	STXBP5
Binding Specificity:	AA 910-1105
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STXBP5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), BioImaging (BI)

Product Details

Immunogen:	Rat Tomosyn aa. 910-1105
Clone:	15-Tomosyn
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Human
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us 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.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	STXBP5
Alternative Name:	Tomosyn (STXBP5 Products)
Background:	Neuronal signal transmission and neurotransmitter release from the presynaptic nerve terminal is mediated by the synaptic vesicle cycle. Syntaxin plays a central role during vesicle docking and fusion through interactions with many vesicle components. During docking, vSNAREs (VAMP/synaptobrevin, synaptotagmin) on the synaptic vesicle and tSNAREs (SNAP-25, syntaxin) on the plasma membrane interact to form a 7S complex, which is essential to docking and fusion. Syntaxin associates with munc18/n-sec1 prior to and/or during the formation of the 7S complex. This interaction may inhibit syntaxin binding proteins (VAMP, SNAP-25) that facilitate vesicle docking or fusion. Tomosyn, a syntaxin binding protein, displaces munc18 from syntaxin-1 and forms a novel 10S complex with syntaxin-1, SNAP-25, and synaptogamin. There are two splice variants of tomosyn designated b-tomosyn and s-tomosyn, while the original is referred to as m-tomosyn. Although b-tomosyn is ubiquitously expressed, s-tomosyn and m-tomosyn are expressed primarily in brain. This antibody is routinely tested by western blot analysis.
Molecular Weight:	130 kDa

Application Details

Comment:	Related Products: ABIN968545, 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.

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:	Yokoyama, Shirataki, Sakisaka, Takai: "Three splicing variants of tomosyn and identification of their syntaxin-binding region." in: **Biochemical and biophysical research communications**, Vol. 256, Issue 1, pp. 218-22, (1999) (PubMed). Fujita, Shirataki, Sakisaka, Asakura, Ohya, Kotani, Yokoyama, Nishioka, Matsuura, Mizoguchi, Scheller, Takai: "Tomosyn: a syntaxin-1-binding protein that forms a novel complex in the neurotransmitter release process." in: **Neuron**, Vol. 20, Issue 5, pp. 905-15, (1998) (PubMed).

Images

Western Blotting

Image 1. Western blot analysis of tomosyn on a rat cerebrum lysate. Lane 1: 1:250, Lane 2: 1:500, Lane 3: 1:1000 dilution of the anti-tomosyn antibody.

Image 2.