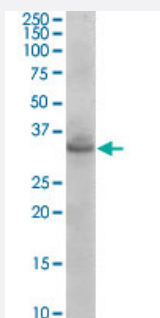


STX1A/STX1B2 polyclonal antibody

Catalog # PAB6845

Size 100 ug

Applications



Western Blot (Tissue lysate)

The STX1A/STX1B2 polyclonal antibody (Cat # PAB6845) (0.003 ug/mL) staining of mouse brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of STX1A/STX1B2.
Immunogen	A synthetic peptide corresponding to N-terminus of human STX1A, STX1B2.
Sequence	KDRTQELRTAKD-C
Host	Goat
Theoretical MW (kDa)	33.0, 33.2
Reactivity	Mouse
Specificity	This product is expected to recognize the products of 2 different genes. STX1A (NP_004594.1 and NP_001159375.1) and STX1B (NP_443106.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL

Recommend Usage	ELISA (1:32000) Western Blot (0.01-0.03 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

The STX1A/STX1B2 polyclonal antibody (Cat # PAB6845) (0.003 ug/mL) staining of mouse brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — STX1A

Entrez GeneID	6804
Protein Accession#	NP_004594.1 (Gene ID : 6804);NP_001159375.1 (Gene ID : 112755);NP_443106.1 (Gene ID : 112755)
Gene Name	STX1A
Gene Alias	HPC-1, STX1, p35-1
Gene Description	syntaxin 1A (brain)
Omim ID	186590
Gene Ontology	Hyperlink
Gene Summary	Synaptic vesicles store neurotransmitters that are released during calcium-regulated exocytosis. The specificity of neurotransmitter release requires the localization of both synaptic vesicles and calcium channels to the presynaptic active zone. Syntaxins function in this vesicle fusion process. Syntaxins also serve as a substrate for botulinum neurotoxin type C, a metalloprotease that blocks exocytosis and has high affinity for a molecular complex that includes the alpha-latrotoxin receptor (MIM 600565) which produces explosive exocytosis (Zhang et al., 1995 [PubMed 7622072]).[supplied by OMIM]
Other Designations	-

Gene Info — STX1B

Entrez GeneID	112755
Protein Accession#	NP_004594.1 (Gene ID : 6804);NP_001159375.1 (Gene ID : 112755);NP_443106.1 (Gene ID : 112755)
Gene Name	STX1B
Gene Alias	STX1B1, STX1B2
Gene Description	syntaxin 1B
Omim ID	601485
Gene Ontology	Hyperlink
Other Designations	syntaxin 1B1 syntaxin 1B2

Publication Reference

- [Syntaxin-1A inhibits cardiac KATP channels by its actions on nucleotide binding folds 1 and 2 of sulfonylurea receptor 2A.](#)

Kang Y, Leung YM, Manning-Fox JE, Xia F, Xie H, Sheu L, Tsushima RG, Light PE, Gaisano HY.

The Journal of Biological Chemistry 2004 Nov; 279(45):47125.

Application: IF, WB, Human, Rat, HEK 293 cells, Rat brain, Rat myocytes

Pathway

- [SNARE interactions in vesicular transport](#)
- [SNARE interactions in vesicular transport](#)

Disease

- [Alzheimer disease](#)
- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)

- [Developmental Disabilities](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Kidney Failure](#)
- [Mental Retardation](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Overweight](#)
- [Schizophrenia](#)