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SNAP23 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant SNAP23.
Catalog # AT3971a

Specification

SNAP23 Antibody (monoclonal) (M01) - Product Information

Application	**IP, WB, IHC, E**
Primary Accession	O00161
Other Accession	BC000148
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**23354**

SNAP23 Antibody (monoclonal) (M01) - Additional Information

Gene ID 8773

Other Names
Synaptosomal-associated protein 23, SNAP-23, Vesicle-membrane fusion protein SNAP-23, SNAP23

Target/Specificity
SNAP23 (AAH00148, 1 a.a. ~ 211 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
SNAP23 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

SNAP23 Antibody (monoclonal) (M01) - Protocols

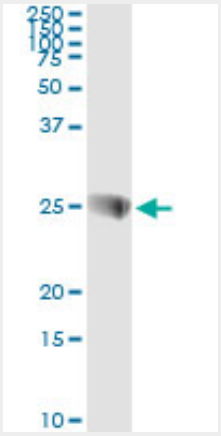
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

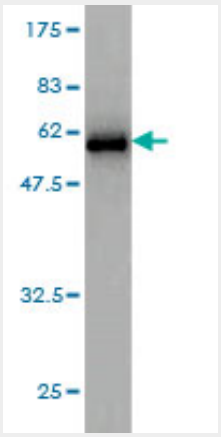
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

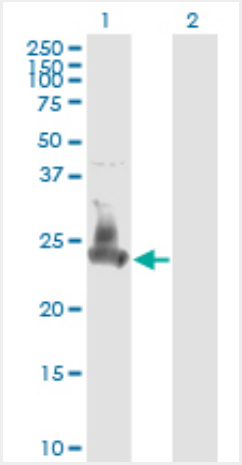
SNAP23 Antibody (monoclonal) (M01) - Images



Immunoprecipitation of SNAP23 transfected lysate using anti-SNAP23 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with SNAP23 MaxPab rabbit polyclonal antibody.



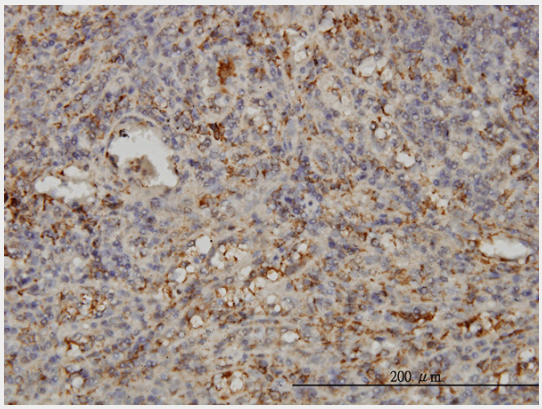
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (48.95 KDa) .



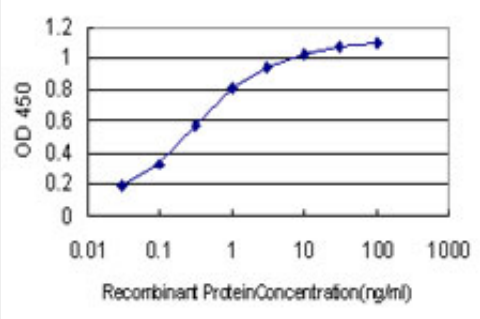
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Western Blot analysis of SNAP23 expression in transfected 293T cell line by SNAP23 monoclonal antibody (M01), clone 2F5-3D4.

Lane 1: SNAP23 transfected lysate (Predicted MW: 23.4 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to SNAP23 on formalin-fixed paraffin-embedded human spleen. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged SNAP23 is approximately 0.03ng/ml as a capture antibody.

SNAP23 Antibody (monoclonal) (M01) - Background

Specificity of vesicular transport is regulated, in part, by the interaction of a vesicle-associated membrane protein termed synaptobrevin/VAMP with a target compartment membrane protein termed syntaxin. These proteins, together with SNAP25 (synaptosome-associated protein of 25 kDa), form a complex which serves as a binding site for the general membrane fusion machinery. Synaptobrevin/VAMP and syntaxin are believed to be involved in vesicular transport in most, if not all cells, while SNAP25 is present almost exclusively in the brain, suggesting that a ubiquitously expressed homolog of SNAP25 exists to facilitate transport vesicle/target membrane fusion in other tissues. The protein encoded by this gene is structurally and functionally similar to SNAP25 and binds tightly to multiple syntaxins and synaptobrevins/VAMPs. It is an essential component of the high affinity receptor for the general membrane fusion machinery and is an important regulator of transport vesicle docking and fusion. Two alternative transcript variants encoding different protein isoforms have been described for this gene.

SNAP23 Antibody (monoclonal) (M01) - References

The SNARE protein SNAP23 and the SNARE-interacting protein Munc18c in human skeletal muscle are implicated in insulin resistance/type 2 diabetes. Bostr?m P, et al. Diabetes, 2010 Aug. PMID 20460426.Identification of type 2 diabetes-associated combination of SNPs using support vector

machine. Ban HJ, et al. BMC Genet, 2010 Apr 23. PMID 20416077.VAMP3, syntaxin-13 and SNAP23 are involved in secretion of matrix metalloproteinases, degradation of the extracellular matrix and cell invasion. Kean MJ, et al. J Cell Sci, 2009 Nov 15. PMID 19910495.Identification of new putative susceptibility genes for several psychiatric disorders by association analysis of regulatory and non-synonymous SNPs of 306 genes involved in neurotransmission and neurodevelopment. Gratac?s M, et al. Am J Med Genet B Neuropsychiatr Genet, 2009 Sep 5. PMID 19086053.Effect of dominant negative SNAP-23 expression on platelet function. Gillitzer A, et al. J Thromb Haemost, 2008 Oct. PMID 18665925.