

Anti-SNAP23 Antibody

Catalog # ABO11081

Specification

Anti-SNAP23 Antibody - Product Information

Application Primary Accession Host Reactivity Clonality Format **Description** Babbit IoG polyclonal ar WB, IHC, ICC <u>000161</u> Rabbit Human, Mouse, Rat Polyclonal Lyophilized

Rabbit IgG polyclonal antibody for Synaptosomal-associated protein 23(SNAP23) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SNAP23 Antibody - Additional Information

Gene ID 8773

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

Calculated MW 23354 MW KDa

Application Details Immunocytochemistry, 0.5-1 μg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.5-1 μg/ml, Human, Mouse, Rat
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, Rat, Mouse, By Heat
Vestern blot, 0.1-0.5 μg/ml, Human, Rat, Mouse

Subcellular Localization

Cell membrane; Peripheral membrane protein. Cell membrane; Lipid-anchor. Cell junction, synapse, synaptosome. Mainly localized to the plasma membrane.

Tissue Specificity Ubiquitous. Highest levels where found in placenta.

Protein Name Synaptosomal-associated protein 23(SNAP-23)

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human SNAP23(192-211aa DTNRDRIDIANARAKKLIDS), different from the related rat and mouse sequences by three amino



acids.

Purification Immunogen affinity purified.

Cross Reactivity No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities Belongs to the SNAP-25 family.

Anti-SNAP23 Antibody - Protein Information

Name SNAP23

Function

Essential component of the high affinity receptor for the general membrane fusion machinery and an important regulator of transport vesicle docking and fusion.

Cellular Location

Cell membrane; Peripheral membrane protein. Cell membrane; Lipid-anchor. Synapse, synaptosome. Note=Mainly localized to the plasma membrane

Tissue Location Ubiquitous. Highest levels where found in placenta.

Anti-SNAP23 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-SNAP23 Antibody - Images





Anti-SNAP23 antibody, ABO11081, Western blottingLane 1: Rat Spleen Tissue LysateLane 2: Rat testis Tissue LysateLane 3: Rat Ovary Tissue LysateLane 4: HELA Cell LysateLane 5: MCF-7 Cell LysateLane 6: SKOV Cell Lysate



Anti-SNAP23 antibody, ABO11081, IHC(P)IHC(P): Human Placenta Tissue



Anti-SNAP23 antibody, ABO11081, IHC(F)IHC(F): Human Placenta Tissue





Anti-SNAP23 antibody, ABO11081,ICCICC: K562 Cell

Anti-SNAP23 Antibody - Background

SNAP23(Synaptosomal-Associated Protein, 23-KD), also called SNAP23A, is a protein that in humans is encoded by the SNAP23 gene. The SNAP23 gene has 8 exons, with the initiation codon located in exon 2. The SNAP23 gene is mapped on 15q15.1-q15.2. The SNAP23 cDNA encodes a 211-amino acid polypeptide with a predicted mass of 23 kD. Its amino acid sequence is 59% identical to that of SNAP25. Northern blot analysis revealed that SNAP23 is ubiquitously expressed. SNAP23 is able to bind to multiple syntaxins as well as to multiple vesicle-associated membrane proteins. After relocation, SNAP23 is required for exocytosis, implying a crucial role in promoting membrane fusion. TIVAMP-containing vesicles were concentrated in the apical domain of epithelial cells. STX3A and SNAP23 were codistributed at the apical plasma membrane, where they formed N-ethyl maleimide-dependent SNARE complexes with TIVAMP and cellubrevin. SNAP23 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.