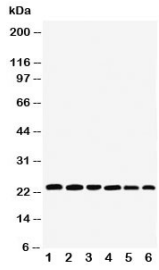
# SNAP23 Antibody (R30867)

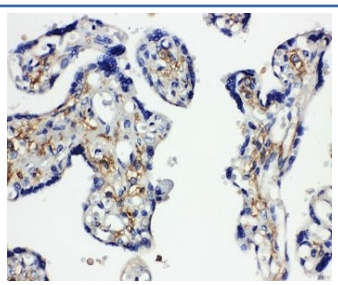
| Catalog No. | Formulation | Size |
|---|---|---|
| R30867 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

## Bulk quote request

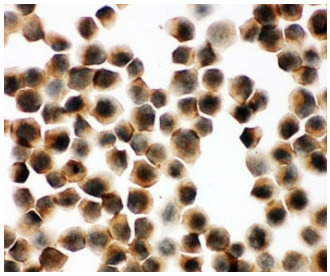
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | O00161 |
| **Applications** | Western Blot : 0.5-1ug/ml<br>IHC (FFPE) : 0.5-1ug/ml<br>IHC (Frozen) : 0.5-1ug/ml<br>Immunocytochemistry : 0.5-1ug/ml |
| **Limitations** | This SNAP23 antibody is available for research use only. |



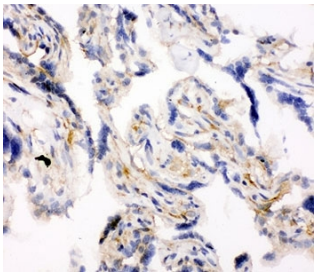

Western blot testing of SNAP23 antibody and Lane 1: rat spleen; 2: (r) testis; 3: (r) ovary; 4: human HeLa; 5: (h) MCF-7; 6: (h) SKOV; Expected molecular weight: ~23/18kDa (isoforms 1/2).



IHC-P: SNAP23 antibody testing of human placenta tissue. HIER: steamed with pH6 citrate buffer.



ICC: SNAP23 antibody testing K562 cells



IHC-F: testing of human placenta tissue

## Description

Synaptosomal-Associated Protein, 23-KD is a protein that in humans is encoded by the SNAP23 gene. The gene has 8 exons, with the initiation codon located in exon 2 and is mapped on 15q15.1-q15.2. Its amino acid sequence is 59% identical to that of SNAP25. Northern blot analysis revealed that SNAP23 is ubiquitously expressed. The protein is able to bind to multiple syntaxins as well as to multiple vesicle-associated membrane proteins. After relocation, it 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. It 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.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the SNAP23 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human SNAP23 (DTNRDRIDIANARAKKLIDS) was used as the immunogen for this SNAP23 antibody. This sequence is common to isoforms 1 and 2.

## Storage

After reconstitution, the SNAP23 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.