

DESCRIPTION

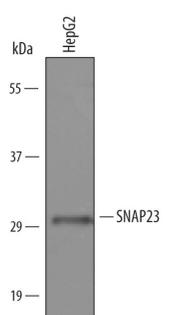
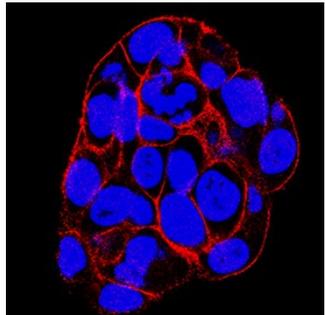
Species Reactivity	Human
Specificity	Detects human SNAP23 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant mouse SNAP23 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SNAP23 Asp146-Ser211 Accession # O00161
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human SNAP23 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Human SNAP23 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6306) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SNAP23 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>SNAP23 in HepG2 Human Cell Line. SNAP23 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Sheep Anti-Human SNAP23 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6306) at 1.7 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
--	--

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SNAP23 (Synaptosomal associated protein 23; also Syndet) is a membrane-associated 23-29 kDa member of the SNAP25 family of proteins. It is expressed in multiple cell types, including neutrophils, platelets, mast cells and adipocytes. SNAP23 is involved in vesicle exocytosis. It has been proposed that SNAP23 can associate with both vesicle and target (cell) membranes via a lipid modification. As a v-SNARE, it may interact with syntaxin-6 at the cell membrane. As a t-SNARE, in conjunction with syntaxin-4, it likely interacts with VAMP-2 and -8 on the vesicle membrane. In either case, this approximates two membranes, which subsequently fuse to create a pore. Human SNAP23 is 211 amino acids (aa) in length. It contains two t-SNARE coiled-coil homology domains (aa 14-76 and 148-207). Palmitoylation occurs between aa 80-87, while phosphorylation occurs on multiple Ser/Thr residues. There is one splice variant that shows a deletion of aa 90-142. Over aa 146-211, human and mouse SNAP23 share 85% aa identity.