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Datasheet for ABIN968404

anti-GS28 antibody (AA 3-108)

2 Images

6 Publications

Overview

Quantity:	50 µg
Target:	GS28 (GOSR1)
Binding Specificity:	AA 3-108
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GS28 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Rat GS28 aa. 3-108
Clone:	1-GS28
Isotype:	IgG2a
Cross-Reactivity:	Mouse (Murine), Human
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target: GS28 (GOSR1)

Alternative Name: GS28 ([GOSR1 Products](#))

Background: Most vesicular fusion events require the function of N-ethylmaleimide-sensitive factor (NSF) and the soluble NSF attachment proteins (SNAPs). Their function is dependent upon the SNAP receptor (SNARE) family of proteins. The specificity of vesicle docking and fusion is mediated by specific interactions between v-SNAREs on vesicles and t-SNAREs on target membranes. GS28 (Golgi SNARE with a size of 28 kDa) is a SNARE that associates with the cis-Golgi and participates in trafficking between the ER and the Golgi and between Golgi compartments. The majority of GS28, the first 230 and 250 aa, is thought to be anchored to the membrane via the C-terminal hydrophobic tail, which is formed by the remaining 20 aa. GS28 and syntaxin 5, another SNARE, exist as a protein complex in the Golgi and this complex is important for the function of both proteins in ER-Golgi transport. The GS28/syntaxin 5 complex can be dissociated by alpha-SNAP and NSF. In addition, GS28 is thought to interact with alpha-SNAP when the GS28/syntaxin 5 complex is dissociated. Thus, GS28 is a SNARE protein that mediates, in complex with syntaxin 5, transport within the Golgi and between Golgi and ER. This antibody is routinely tested by western blot analysis.

Molecular Weight: 28 kDa

Application Details

Comment: Related Products: [ABIN967389](#)

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

Publications

Product cited in: Loh, Peter, Subramaniam, Hong: "Mammalian Bet3 functions as a cytosolic factor participating in transport from the ER to the Golgi apparatus." in: **Journal of cell science**, Vol. 118, Issue Pt 6, pp. 1209-22, (2005) ([PubMed](#)).

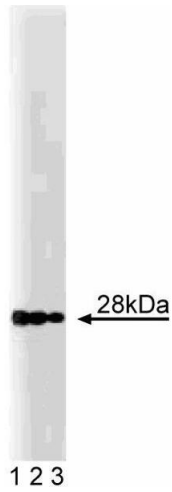
Hamza, Prohaska, Gitlin: "Essential role for Atox1 in the copper-mediated intracellular trafficking of the Menkes ATPase." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 3, pp. 1215-20, (2003) ([PubMed](#)).

Muller, Shorter, Newman, Deinhardt, Sagiv, Elazar, Warren, Shima: "Sequential SNARE disassembly and GATE-16-GOS-28 complex assembly mediated by distinct NSF activities drives Golgi membrane fusion." in: **The Journal of cell biology**, Vol. 157, Issue 7, pp. 1161-73, (2002) ([PubMed](#)).

Lanoix, Ouwendijk, Stark, Szafer, Cassel, Dejgaard, Weiss, Nilsson: "Sorting of Golgi resident proteins into different subpopulations of COPI vesicles: a role for ArfGAP1." in: **The Journal of cell biology**, Vol. 155, Issue 7, pp. 1199-212, (2001) ([PubMed](#)).

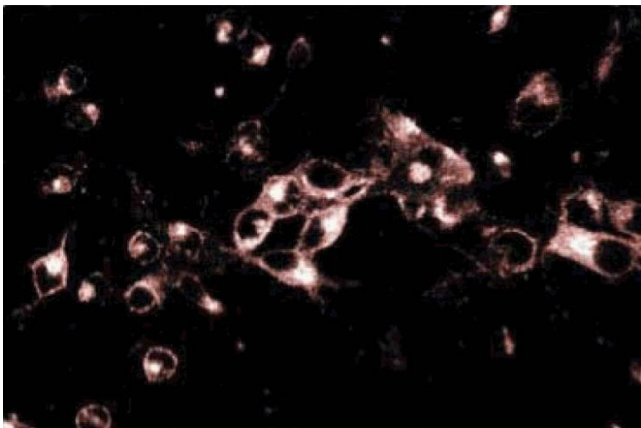
Subramaniam, Loh, Hong: "N-Ethylmaleimide-sensitive factor (NSF) and alpha-soluble NSF attachment proteins (SNAP) mediate dissociation of GS28-syntaxin 5 Golgi SNAP receptors (SNARE) complex." in: **The Journal of biological chemistry**, Vol. 272, Issue 41, pp. 25441-4, (1997) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Western blot analysis of GS28 on a RSV-3T3 lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- GS28 antibody.



Immunofluorescence

Image 2. Immunofluorescence of rat neurons.