Technical Data Sheet

Purified Mouse Anti-GS28

Product Information

Material Number: 611184
Size: 50 µg
Concentration: 250 µg/ml
Clone: 1/GS28
Immunogen: Rat GS28 aa. 3-108
Isotype: Mouse IgG2a
Reactivity: QC Testing: Mouse
Tested in Development: Human, Rat
Target MW: 28 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Most vesicular fusion events require the function of N-ethylmaleimide-sensitive factor (NSF) and the soluble NSF attachment proteins (SNAPPs). 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 α-SNAP and NSF. In addition, GS28 is thought to interact with α-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. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.
## Application Notes

### Application

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<thead>
<tr>
<th></th>
<th>Western blot</th>
<th>Routinely Tested</th>
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<tbody>
<tr>
<td>Immunofluorescence</td>
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<td>Tested During Development</td>
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### Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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</thead>
<tbody>
<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Igs</td>
<td>1.0 ml</td>
<td>(none)</td>
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<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Igs</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.

### References

- Subramaniam VN, Loh E, Hong W. N-Ethylmaleimide-sensitive factor (NSF) and alpha-soluble NSF attachment proteins (SNAP) mediate dissociation of GS28-syntaxin 5 Golgi SNAP receptors (SNARE) complex. *J Biol Chem*. 1997; 272(41):25441-25444. (Biology)