Technical Data Sheet

Purified Mouse Anti-GS27

Product Information
Material Number: 611035
Alternate Name: Golgi SNARE of 27 kDa; Membrin
Size: 150 µg
Concentration: 250 µg/ml
Clone: 25/GS27
Immunogen: Human GS27 aa. 5-124
Isotype: Mouse IgG1
Reactivity: QC Testing: Human
               Tested in Development: Dog
Target MW: 27 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
Eukaryotic protein trafficking involves the packaging of target molecules into membranous vesicles that bud from a donor compartment, travel to a specific destination, fuse, and release their components into an acceptor compartment. Components of both the vesicle and the synaptic plasma membrane interact to form a fusion complex that mediates vesicle docking and fusion. This fusion complex contains NSF (N-ethyl-maleimide-sensitive factor), SNAPs (soluble NSF attachment proteins), and receptor proteins (SNAREs) that include synaptobrevin, synaptotagmin, syntaxin, and SNAP-25 (synaptosome-associated protein of 25 kDa). Interactions between vesicle SNAREs and target membrane SNAREs mediates the specificity of docking. Along one pathway of protein trafficking, the Golgi apparatus receives proteins from the ER. These proteins move from cis-Golgi to trans-Golgi, through a stack of cisternae, towards the trans-Golgi network. From here, they are delivered to their proper destination in the cell. GS27 (Golgi SNARE of 27 kDa) (membrin) is a Golgi-associated SNARE. It functions in medial-to-trans-Golgi protein movement.


Immunofluorescence staining of human endothelial cells.

Preparation and Storage
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

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Application Notes

Application

<table>
<thead>
<tr>
<th>Western blot</th>
<th>Routinely Tested</th>
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<tbody>
<tr>
<td>Immunofluorescence</td>
<td>Tested During Development</td>
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</table>

Recommended Assay Procedure:

**Western blot**: Please refer to [http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml](http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml)

**Suggested Companion Products**

<table>
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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
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<tbody>
<tr>
<td>611451</td>
<td>Jurkat Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
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<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
<td>(none)</td>
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<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</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**

Hay JC, Chao DS, Kuo CS, Scheller RH. Protein interactions regulating vesicle transport between the endoplasmic reticulum and Golgi apparatus in mammalian cells. *Cell*. 1997; 89(1):149-158. (Biology)
