Technical Data Sheet

Purified Mouse Anti-Human Annexin VII

Product Information

Material Number: 610668
Alternate Name: Synexin
Size: 50 µg
Concentration: 250 µg/ml
Clone: 5/Annexin VII
Immunogen: Human Annexin VII aa. 34-159
Isotype: Mouse IgG1
Reactivity: QC Testing: Human
Target MW: 51 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Annexin VII, also known as synexin, is a member of the Annexin family characterized by Ca2+ dependent phospholipid binding. Annexins have a four-fold internal repeat of about 70 amino acids that contains the Ca2+-binding sites. They also have a regulatory NH2-terminal region of 30-40 amino acids. Annexin VII mRNA has been detected in many tissues and is most abundant in brain, heart, skeletal muscle, and lung. Annexin VII mRNA exhibits a tissue dependent polymorphism due to alternative splicing which results in two different isoforms of 47 kDa and 51 kDa. In vitro, Annexin VII aggregates chromaffin granules and enhances membrane fusion in a Ca2+ and GTP-dependent manner. Although the physiological role of Annexin VII is not completely understood, it is believed to influence and regulate Ca2+ dependent events such as secretion at the plasma membrane.

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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<th>Application</th>
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<th>Tested During Development</th>
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<td>Western blot</td>
<td>Routinely Tested</td>
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<td>Immunoprecipitation</td>
<td>Tested During Development</td>
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<td>Immunofluorescence</td>
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#### 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

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<th>Size</th>
<th>Clone</th>
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<tr>
<td>611450</td>
<td>Human Endothelial Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
</tr>
<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


