Technical Data Sheet
Purified Mouse Anti-Connexin-43

Product Information

Material Number: 610062
Size: 150 µg
Concentration: 250 µg/ml
Clone: 2/Connexin-43
Immunogen: Rat Connexin-43 aa. 252-270
Isotype: Mouse IgG1
Reactivity: QC Testing: Rat
Tested in Development: Chicken, Dog, Human, Mouse
Target MW: 43 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Gap junctions are intercellular protein pores. They enable cell-to-cell communication by allowing passage of ions and other small molecules. The subunits of gap junction channels are assembled from a family of proteins called connexins. Individual connexin molecules join to make hexameric channel-like transmembrane channels; these structures dock to connexons on neighboring cells, forming gap junction pores. Connexin-43 is a member of the connexin family possessing four transmembrane regions, with cytoplasmic amino and carboxyl terminals. It undergoes rapid turnover in the cell and its monomers may reside in the ER/Golgi network, forming a reservoir available for assembly upon degradation of existing connexin-43 channels. In addition, it is believed that phosphorylation of connexin-43 plays a regulatory role both in the assembly of connexons and in gating activity at the gap junction.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Routine Tested</th>
<th>Tested During Development</th>
<th>Not Recommended</th>
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</thead>
<tbody>
<tr>
<td>Western blot</td>
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<tr>
<td>Immunofluorescence</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Immunohistochemistry-formalin (antigen retrieval required)</td>
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Suggested Companion Products

<table>
<thead>
<tr>
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<th>Name</th>
<th>Size</th>
<th>Clone</th>
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</thead>
<tbody>
<tr>
<td>611463</td>
<td>Rat Cerebrum Lysate</td>
<td>500 µg</td>
<td>(none)</td>
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<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


