Technical Data Sheet

Purified Mouse Anti-AKAP79

Product Information

Material Number: 610314
Size: 50 µg
Concentration: 250 µg/ml
Clone: 22/AKAP79
Immunogen: Human AKAP79 aa. 180-427
Isotype: Mouse IgG1
Reactivity: QC Testing: Human
Target MW: 79 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The type II cAMP-dependent Protein Kinase (PKA) is compartmentalized within the cell. To maintain this localization of type II PKAs, the regulatory subunit (RII) interacts with specific RII-anchoring proteins. For instance, attachment of type II PKA to the cytoskeleton occurs through the binding of RII to microtubule-associated protein 2 (MAP2). In brain, several proteins have been identified as PKA type II anchoring proteins and form a family named AKAP (A-Kinase Anchor Proteins). AKAP79 is a 79kDa human RII-anchoring protein. AKAP, PKA type II, and calcineurin (PP2B) can form a tertiary complex, suggesting that both PKA and calcineurin are targeted by a common protein to subcellular sites where they regulate the phosphorylation status of key substrates.

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>
<th>Tested During Development</th>
<th>Not Recommended</th>
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<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunofluorescence</td>
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<td>Immunohistochemistry</td>
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<tr>
<td>Immunoprecipitation</td>
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Recommended Assay Procedure:

Western blot: Please refer to 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>
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</thead>
<tbody>
<tr>
<td>611475</td>
<td>SW-13 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


