Purified Mouse Anti-Coilin

Product Information

Material Number: 612074
Size: 50 µg
Concentration: 250 µg/ml
Clone: 56/Coilin
Immunogen: Human Coilin aa. 226-332
Isotype: Mouse IgG1
Reactivity: Tested in Development: Mouse, Rat
Target MW: 80 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Ramon Cajal described small silver-staining organelles in the nuclei of pyramidal neurons, which have been referred to as cajal bodies or coiled bodies. An 80 kDa protein called p80 coilin was identified through its co-localization to coiled bodies. Coilin is a molecular marker of coiled bodies, but can also be found in the nucleoplasm, and may shuttle back and forth between the cytoplasm and nucleoplasm. Studies of GFP-coilin show that coiled bodies can move within the nucleoplasm to and from nucleoli. Other proteins that have been co-localized with coilin to the coiled bodies include cell cycle proteins, snRNPs, U3 snRNA, U7 snRNA, and several nucleolar proteins. Coiled bodies may recruit U7 snRNP and the stem-loop-binding protein to the chromosomal sites of histone gene transcription. Possibly, coilin is important for the formation of coiled bodies that act as sites for preassembly of "transcriptosomes", which facilitate gene transcription and RNA processing.

Preparation and Storage

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

Application Notes

Application
Western blot Routinely Tested
Immunofluorescence Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml
### Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>611550</td>
<td>K-562 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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</tbody>
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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
