Technical Data Sheet

Purified Mouse Anti-GCIP

Product Information

Material Number: 612294
Alternate Name: Grap2 Cyclin-D Interacting Protein
Size: 50 µg
Concentration: 250 µg/ml
Clone: 54/GCIP
Immunogen: Human GCIP aa. 62-277
Isotype: Mouse IgG1
Reactivity: QC Testing: Human Tested in Development: Mouse, Rat, Dog
Target MW: 46 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
Adaptor proteins are critical for the formation of signaling complexes that relay signals from the plasma membrane to the nucleus. These proteins are involved in diverse pathways that regulate cell growth, differentiation, and death. GCIP (Grap2 Cyclin-D Interacting Protein) was identified in a yeast two-hybrid screen where the leukocyte-specific adaptor protein Grap2 was used as bait. The sequence of GCIP is 65% homologous to mouse Maid, a negative regulator of transcription factors in mouse egg and zygote. GCIP protein contains a DNA binding HLH domain and a leuzine-zipper-like motif. GCIP mRNA is widely expressed in most tissues with higher expression in heart, muscle, leukocytes, kidney, and brain. Similar to Grap2, GCIP binds cyclin-D1 and the novel protein p29 GCIP interacting protein. Transfection of GCIP in cells reduces phosphorylation of Rb by cyclin-D-interacting protein kinase and inhibited E2F1-mediated transcriptional activity. Thus, GCIP may function as an adaptor protein that may regulate gene expression important for cell cycle regulation and immune signaling.


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

Application Notes

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<tr>
<th>Application</th>
<th>Routinely Tested</th>
<th>Not Recommended</th>
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<tbody>
<tr>
<td>Western blot</td>
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<tr>
<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>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<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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### 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
