Technical Data Sheet

Purified Mouse Anti- 14-3-3

Product Information

Material Number: 561465
Size: 50 µg
Concentration: 250 µg/mL
Clone: 12/14-3-3
Immunogen: Human 14-3-3
Isotype: Mouse IgM
Reactivity: QC Testing: Human Tested in Development: Mouse, Rat, Dog, Chicken, Frog
Target MW: 29 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The family of 14-3-3 proteins has been implicated in numerous cellular processes such as neurotransmission, phospholipase activity, and calcium signaling. The 14-3-3 protein can associate with several proteins involved in cell proliferation, such as Raf-1, Bcr-Abl, middle T antigen, and CDC25 phosphatase. It appears that 14-3-3 proteins enhance the kinase activity of the Raf proto-oncogene equally as well as Ras, thus, implicating 14-3-3 proteins in the Raf/Ras/Map kinase signaling pathway. However, in spite of 14-3-3 direct association with the CDC25 phosphatase, this interaction does not increase the phosphatase activity. It has been reported that this antibody detects 14-3-3 subunits β, γ, η, 0, and ζ, but not ε or σ.

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
Immunohistochemistry Tested During Development
Immunoprecipitation Not Recommended

Recommended Assay Procedure:
Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

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## 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>611449</td>
<td>HeLa 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.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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. Please refer to wwwbdbiosciencescom/pharmingen/protocols for technical protocols.

## References
- Conklin DS, Galaktionov K, Beach D., 14-3-3 proteins associate with cdc25 phosphatases. *Proc Natl Acad Sci U S A.* 1995; 92(17):7892-7896. (Biology)