Technical Data Sheet

Purified Mouse Anti-VASP

Product Information

Material Number: 610448
Size: 150 µg
Concentration: 250 µg/ml
Clone: 43/VASP
Immunogen: Human VASP aa. 248 - 379
Isotype: Mouse IgG1
Reactivity: QC Testing: Human
Tested in Development: Dog
Target MW: 46 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Vasodilator-stimulated phosphoprotein (VASP), a substrate for cAMP- and cGMP-dependent kinases, is associated with actin filaments, focal adhesions, and dynamic membrane regions. VASP is composed of several distinct domains: a central L-proline-rich domain contains a GPPPPP motif as a single copy and as a three-fold tandem repeat, as well as three conserved phosphorylation sites for cyclic nucleotide-dependent protein kinases (Ser157, Ser239, and Thr278). A C-terminal domain contains a repetitive mixed-charge cluster which is predicted to form an α-helix. The C-terminal domain appears to be responsible for anchoring at focal adhesion sites. VASP has been shown to be a ligand for profilins. Profilins bind to the poly-L-proline motifs of VASP and it is postulated that these two molecules act in concert to convey signal transduction to actin filament formation.

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

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

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
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<tbody>
<tr>
<td>611450</td>
<td>Human Endothelial Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
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</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to wwwbdbiosciences.com/pharmingen/protocols for technical protocols.
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


Lawrence DW, Pryzwansky KB. The vasodilator-stimulated phosphoprotein is regulated by cyclic GMP-dependent protein kinase during neutrophil spreading. J Immunol. 2001; 166(9):5550-5556.(Clone-specific: Immunofluorescence, Immunoprecipitation, Western blot)