Technical Data Sheet

Purified Mouse Anti-p62 Ick ligand

Product Information

Material Number: 610832
Alternate Name: Zeta Interacting Protein (ZIP); SQSMT1
Size: 50 µg
Concentration: 250 µg/ml
Clone: 3/P62 LCK LIGAND
Immunogen: Human p62 Ick ligand aa. 257-437
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Target MW: 62 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

p62 Ick ligand (zeta-interacting protein (ZIP)) is a cytoplasmic protein that binds to the SH2 domain of Ick (a T cell src tyrosine kinase) in the absence of a phosphotyrosine in either protein. The ubiquitously expressed p62 Ick ligand contains a cysteine rich region that is similar to a zinc finger domain, a G protein binding region, a PEST sequence, and several phosphorylation sites. Deletion of the p62 Ick ligand N-terminal domain has been reported to abrogate its binding to Ick. However, mutation of the tyrosine did not have an effect. In addition, p62 Ick ligand binds to the pseudosubstrate region of the PKCζ catalytic domain. In turn, PKCζ phosphorylates p62. p62 Ick ligand binds to the dimerization region of PKCζ, thereby inhibiting PKCζ-PKCζ interaction. This suggests that p62 Ick ligand may compete with PKCζ. However, it requires PKCζ for proper subcellular localization. These data suggest that p62 Ick ligand may be part of the protein bridge that links PKCζ to the tyrosine kinases involved in signaling pathways.

Preparation and Storage

Store undiluted at -20ºC.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

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

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610832 Rev. 2
Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>611474</td>
<td>HCT-8 Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
</tr>
<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References


