Technical Data Sheet

FITC Mouse Anti-Nucleoporin p62

Product Information
Material Number: 611962
Size: 50 µg
Concentration: 250 µg/ml
Clone: 53/Nucleoporin p62
Immunogen: Human Nucleoporin aa. 24-178
Isotype: Mouse IgG2b
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
The nuclear pore complex (NPC) acts as a gate to mediate active transport of proteins and RNA into and out of the nucleus. Proteins actively transported into the nucleus through the NPC require specific nuclear localization sequences. Many of these nucleoporins contain N-acetylglucosamine (GlcNAc) residues that are O-linked to serine or threonine. p62 is the best characterized member of a group of nucleoporins that line the central region of the NPC. A tightly associated complex is formed by p62 and two other nucleoporins, p54 and p58. p54 binds to a carboxy-terminal coiled-coil domain of p62 and p58 binds to a dimer of p54. The amino-terminal domain of p62 contains a series of XFXFX repeats and is joined to the coiled-coil domain by a threonine-rich linker segment. The major role of p62 is maintenance of the structural integrity of NPCs.

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>Notes</th>
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<tbody>
<tr>
<td>Immunofluorescence</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Not Recommended</td>
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<tr>
<td>Immunohistochemistry</td>
<td>Not Recommended</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.

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References
