**DESCRIPTION**

**Species Reactivity** Human/Mouse/Rat

**Specificity** Detects the induced form of human and mouse HSP70/HSPA1A in Western blots. In Western blots, no cross-reactivity with the constitutively expressed HSC70 (HSP73) is detected.

**Source** Monoclonal Mouse IgG2A Clone # 242707

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** E. coli-derived recombinant human HSP70/HSPA1A

**Accession #** NP_005336

**Formulation** Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 μg/mL</td>
<td>See Below</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>8-25 μg/mL</td>
<td>See Below</td>
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**DATA**

**Western Blot**

Detection of Human and Mouse HSP70/HSPA1A by Western Blot.

Western blot shows lysates of Jurkat human acute T cell leukemia cell line and NIH-3T3 mouse embryonic fibroblast cell line untreated (-) or treated (+) with a 42 °C heat shock for 30 minutes with a 3 hour recovery. PVDF membrane was probed with 0.1 μg/mL of Mouse Anti-Human/Mouse/Rat HSP70/HSPA1A Monoclonal Antibody (Catalog # MAB1663), followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for HSP70/HSPA1A at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

**Immunohistochemistry**

HSP70/HSPA1A in Human Liver Cancer Tissue.

HSP70/HSPA1A was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Mouse Anti-Human/Mouse/Rat HSP70/HSPA1A Monoclonal Antibody (Catalog # MAB1663) at 25 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.