

DESCRIPTION

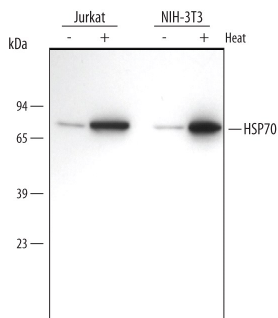
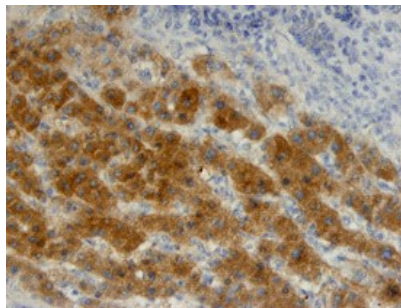
Species Reactivity	Human/Mouse/Rat
Specificity	Detects the induced form of human and mouse HSP70/HSPA1A in Western blots. In Western blots, no cross-reactivity with the constitutively expressed HSC70 (HSP73) is detected.
Source	Monoclonal Mouse IgG _{2A} Clone # 242707
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HSP70/HSPA1A Met1-Asp641 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 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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>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.</p>	<p>Immunohistochemistry</p>  <p>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.</p>
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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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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.