

Product Datasheet

HSP70 Antibody (Biotin) (orb54778)

Catalog Number	orb54778
Category	Antibodies
Description	Mouse monoclonal antibody against HSP70 conjugated to Biotin.
Target	HSP70
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1
Conjugation	Biotin
Reactivity	Bovine, Human, Mouse, Porcine, Rat
Concentration	1 mg/ml
Buffer/Preservatives	136.36mM Ethanolamine, 133.23 mM Chlorides, 9.55mM Phosphates, 9.55mM Sodium Bicarbonate
Purification	Protein G Purified
Immunogen	Human native HSP70 protein
UniProt ID	P0DMV9, P0DMV8
Tested applications	FACS, FC, ICC, IF, WB
Dilution range	WB (1:1000), ICC/IF (1:100), FACS (1:250)

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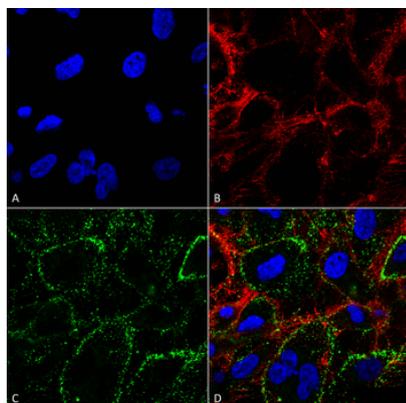
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Application notes	A 1:250 dilution of SMC-249 was sufficient for detection of cell surface HSP70 in HCT116 cells using Fluorescence-activated cell sorting, applied in flow cytometry, with FITC as the fluorescent probe.
Specificity	Conformation-specific antibody for membrane-bound HSP70. Binds to cell surface HSP70 without permeabilization of cell membrane in tumor cell lines. Does not bind to intracellular HSP70 at low concentrations. Cross-reacts with HSC70. Detects a ~70 kDa band in Western Blot.
Clone Number	1H11
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	3303
NCBI	NP_005336.3
Expiration Date	12 months from date of receipt.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-HSP70 Monoclonal Antibody, Clone 1H11. Tissue: HCT116 cells. Species: Human. Fixation: 4% Formaldehyde. Primary Antibody: Mouse Anti-HSP70 Monoclonal Antibody at 1:100. Counterstain: Wheat germ agglutinin Texas red membrane marker; DAPI (blue) nuclear stain. Localization: Cell surface, cell membrane. (A) DAPI nuclear stain. (B) Wheat germ agglutinin Texas red. (C) HSP70 Antibody. (D) Composite.

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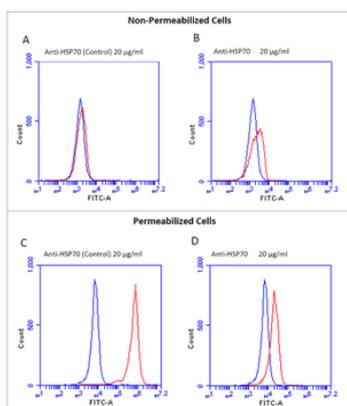
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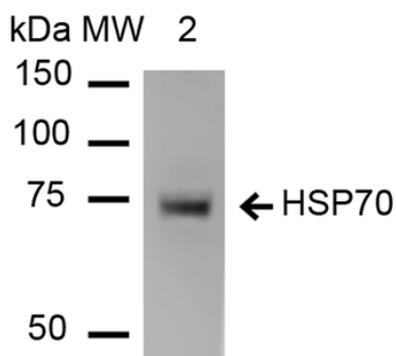
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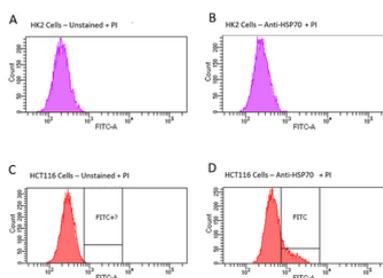
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Fluorescence-activated cell sorting analysis using Mouse Anti-HSP70 Monoclonal Antibody, Clone 1H11. Tissue: Jurkat E6.1 cells. Species: Human. Fixation: No fixation. Primary Antibody: Mouse Anti-HSP70 Monoclonal Antibody at 20 µg/ml for 40 min at 4°C. Counterstain: Propidium Iodide nuclear stain at 2.5 µg/ml for 5 min at RT. Isotype Control: Anti-mouse FITC at 1:32 for 15 min at RT (blue line).



Western Blot analysis of Human Heat Shocked cervical cancer cell line (HeLa) lysate showing detection of HSP70 protein using Mouse Anti-HSP70 Monoclonal Antibody, Clone 1H11. Lane 1: Molecular Weight ladder (MW). Lane 2: HeLa cell lysates. Load: 20 µg. Primary Antibody: Mouse Anti-HSP70 Monoclonal Antibody at 1:1000.



Fluorescence-activated cell sorting analysis using Mouse Anti-HSP70 Monoclonal Antibody, Clone 1H11. Tissue: HCT116 and HK2 cells. Species: Human. Primary Antibody: Mouse Anti-HSP70 Monoclonal Antibody at 1:100 for 90 min at 4°C. Counterstain: Propidium Iodide nuclear stain. (A) HK2 cells unstained. (B) HK2 cells and HSP70 Antibody. (C) HCT116 cells unstained. (D) HCT116 cells and HSP70 Antibody. Shows that HSP70 Antibody binds to the cell surface of tumor cells but not non-tumor cells.

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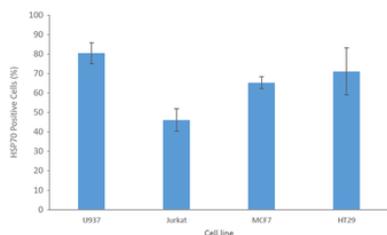
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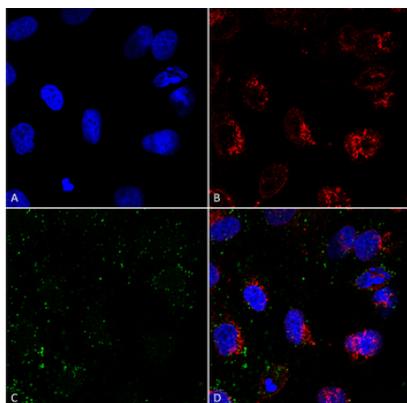
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Fluorescence-activated cell sorting analysis using Mouse Anti-HSP70 Monoclonal Antibody, Clone 1H11. Tissue: Jurkat E6.1, U937, MCF7 and HT29 cells. Species: Human. Fixation: No fixation. Primary Antibody: Mouse Anti-HSP70 Monoclonal Antibody at 20 µg/ml for 40 min at 4°C. Counterstain: Propidium iodide nuclear stain at 2.5 µg/ml for 5 min at 4°C. Shows that binding of HSP70 Antibody is not cell-line specific.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-HSP70 Monoclonal Antibody, Clone 1H11. Tissue: HCT116 cells. Species: Human. Fixation: 4% Formaldehyde. Primary Antibody: Mouse Anti-HSP70 Monoclonal Antibody at 1:100. Counterstain: Wheat germ agglutinin Texas red membrane marker; DAPI (blue) nuclear stain. Localization: Cell surface, faint intracellular. (A) DAPI nuclear stain. (B) Wheat germ agglutinin Texas red. (C) HSP70 Antibody. (D) Composite.

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