

Hsp40 (Hdj1) Polyclonal Antibody, R-Phycoerythrin Conjugate

**New Conjugate Forms
Now Available !
DyLight™ 488 & PE**

Product Specifications

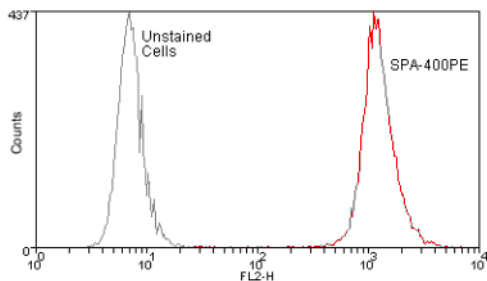
Catalog Number:	SPA-400PE
Host:	Rabbit
Species Reactivity:	Human, monkey, mouse, rat, hamster, guinea pig, rabbit, dog, cow, sheep, pig, chicken, mussel, scallop, beluga, <i>Xenopus</i> , fish Other species not tested.
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	Flow Cytometry: 1:100 Other applications not tested.
Predicted m.w.:	~40 kDa
Concentration:	See product label
Purification:	Protein A Affinity
Format:	PBS, pH 7.2, 0.09% azide
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at 4 °C
Immunogen:	Recombinant human Hsp40 protein
Related Products:	
SPP-400	Hsp40 (Hdj1) Recombinant Protein
LYC-HL101	HeLa Cell Lysate (Heat Shocked)
SAB-300	Goat anti-Rabbit IgG Polyclonal Antibody, HRP Conjugate
SPA-400	Hsp40 (Hdj1) Polyclonal Antibody
NEW! SPA-400-488	Hsp40 (Hdj1) Polyclonal Antibody, DyLight™ Conjugate
SPA-450	Hsp40 (Hdj1) Monoclonal Antibody (2E1)

Background:

Hsp40, also known as Hdj1¹, is a basic mammalian 40kDa heat shock protein homologous to the bacterial heat shock protein, DnaJ and yeast DnaJ-related proteins such as SCJ1, Sec63/Npl1, YDJ1 and SIS1²⁻⁵. Like many heat shock proteins, Hsp40 is inducible by heat, transient metals and azetidine carboxylic acid in mammalian and avian cells³. In heat shocked HeLa cells, Hsp40 translocates rapidly from the cytoplasm to the nucleus and nucleoli in an intracellular pattern similar to Hsc70/Hsp70, the mammalian homologues of bacterial heat shock protein DnaK². This suggests that Hsp40 and Hsp70 colocalize and repair denatured proteins in the nuclei and nucleoli of heat shocked cells², resembling the collaboration of bacterial DnaJ and DnaK in dissociating the bacteriophage lambda protein complexes^{6,7} and monomerizing the Rep A dimer⁸.

References:

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Flow cytometry analysis of 10⁶ Jurkat cells using Hsp40 (Hdj1) Monoclonal Antibody, PE Conjugate at a concentration of 10 µg/mL

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