

Product Datasheet

HSP40 Antibody: Biotin (orb151190)

Description	Rabbit polyclonal to Hsp40 (Biotin). DnaJ/Hsp40 proteins have been preserved throughout evolution and are important for protein translation, folding, unfolding, translocation, and degradation, primarily by stimulating the ATPase activity of chaperone proteins, Hsp70s. Because the ATP hydrolysis is essential for the activity of Hsp70s, DnaJ/Hsp40 proteins actually determine the activity of Hsp70s by stabilizing their interaction with substrate proteins. DnaJ/Hsp40 proteins all contain the J domain through which they bind to Hsp70s. Hsp40, also known as HDJ1, is a basic mammalian 40kDa heat shock protein which is not only homologous to the bacterial heat shock protein (DnaJ), but also yeast DnaJ-related proteins such as SCJ1, Sec63/Npl1, YDJ1 and SIS1 (2-5). Hsp 40 is inducible by stress including heat after which it moves from the cytoplasm to the nucleus and nucleoli; an intracellular pattern similar to Hsc70/Hsp70, the mammalian homologues of the bacterial heat shock protein, DnaK..
Species/Host	Rabbit
Reactivity	Human
Conjugation	Biotin
Tested Applications	ELISA, ICC, IF, IHC, WB
Immunogen	Recombinant purified full-length human HSP40 (no tags)
Target	HSP40
Preservatives	136.36mM Ethanolamine, and 9.55mM Sodium Bicarbonate in 95.45% PBS
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Application notes	0.5 µg/ml of SPC-100 was sufficient for detection of HSP40 in 20 µg of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Clonality	Polyclonal

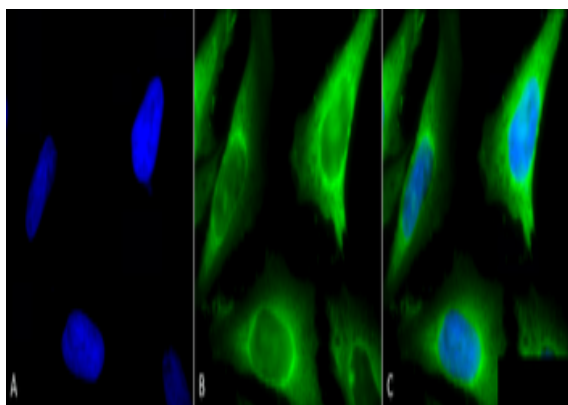
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MW	40kDa
Uniprot ID	P25685
NCBI	NP_006136.1
Entrez	3337
Dilution Range	WB (1:2000), ICC/IF (1:100)
Expiration Date	12 months from date of receipt.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Hsp40 Polyclonal Antibody. Tissue: Heat Shocked Cervical cancer cell line (HeLa). Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Hsp40 Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp40 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.



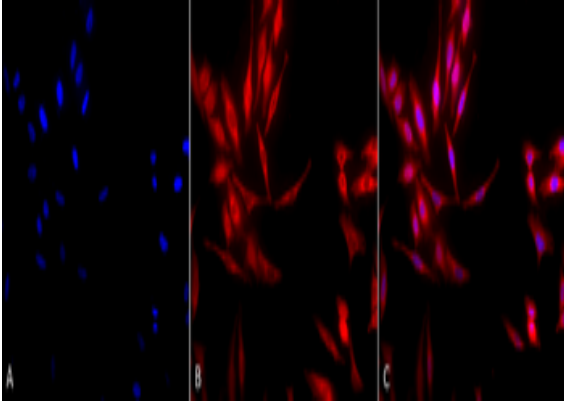
Western blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of HSP40 protein using Rabbit Anti-HSP40 Polyclonal Antibody. Primary Antibody: Rabbit Anti-HSP40 Polyclonal Antibody at 1:1000.

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