

Product datasheet for **TA326376**

Hsp40 (DNAJB1) Mouse Monoclonal Antibody [Clone ID: 3B9.E6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3B9.E6
Applications:	IF
Recommended Dilution:	WB: 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Protein Hsp40 (Hdj1)
Formulation:	PBS pH7.2, 50% glycerol, 0.09% sodium azide
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DnaJ heat shock protein family (Hsp40) member B1
Database Link:	NP_006136 Entrez Gene 81489 MouseEntrez Gene 361384 RatEntrez Gene 3337 Human P25685



[View online »](#)

Background:

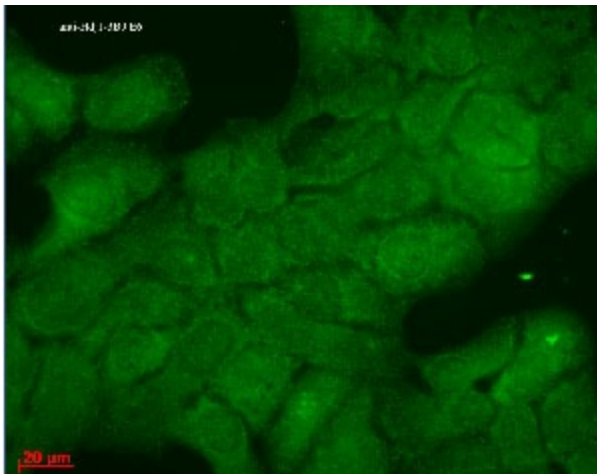
Human Hsp40/DnaJ proteins comprise a large protein family, members of which feature the J domain (named after the bacterial DnaJ protein) . The J-domain spans the first 75 N-terminal amino acids and is separated from the C-terminal by a glycine/phenylalanine-rich domain . Members of the Hsp40/DnaJ family play diverse roles in many cellular processes, such as folding, translocation, degradation and assembly of multi-protein complexes. In particular, Hdj1, the first human Hsp40/DnaJ protein identified, plays an important role in protein translation and folding, as well as in the regulation of Hsp70 function . HSP40 stimulates the ATPase activity of HSP70 which in turn causes conformational changes of the unfolded proteins . The Hsp40-Hsp70-unfolded protein complex further binds to co-chaperones Hip, Hop and HSP90 which leads to protein folding, or components of protein degradation machinery CHIP and BAG-1 . Some studies have shown that the difference between HDJ1 and type 1 DNAJ proteins including HDJ2 and yeast Ydj1 is the result of the possession of a zinc finger domain by the latter, which helps in the function of protein folding. .

Synonyms:

Hdj1; Hsp40; HSPF1; RSPH16B; Sis1

Note:

Detects ~40kDa. Does not cross-react with HDJ2 or YDJ1.

Product images:

Hsp40 HDJ1 visualized using the antibody