

## 42-1271: Anti-HSP40, Hdj1 Monoclonal Antibody (Clone : 3B9.E6)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	3B9.E6
<b>Application :</b>	IP,ELISA,ICC/IF,IHC,WB
<b>Reactivity :</b>	Rat,Mouse,Human
<b>Conjugate :</b>	Unconjugated
<b>Gene :</b>	DNAJB1
<b>Gene ID :</b>	3337
<b>Uniprot ID :</b>	P25685
<b>Alternative Name :</b>	DNAJB1,DNAJ1,HDJ1,HSPF1
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	Recombinant Protein HSP40 (Hdj1)

### Description

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.

### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Protein G Purified
<b>Content :</b>	PBS pH7.2, 50% glycerol, 0.09% sodium azide
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

WB (1:2000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

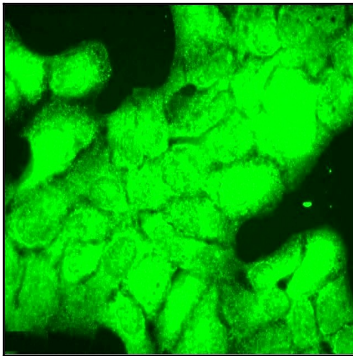


Figure1 : Mouse Anti-Hsp40 Antibody [3B9.E6] used in Immunocytochemistry/Immunofluorescence (ICC/IF) on Human HaCaT cells

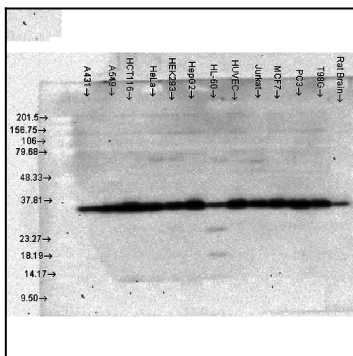


Figure 2 : Mouse Anti-Hsp40 Antibody [3B9.E6] used in Western Blot (WB) on Human Cell lysates