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Datasheet for 200-301-F56

HSP40 (HDJ1) Antibody

Overview

Description:	Anti-HSP40 (HDJ1) (MOUSE) Monoclonal Antibody - 200-301-F56
Item No.:	200-301-F56
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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 YdjI is the result of the possession of a zinc finger domain by the latter, which helps in the function of protein folding.
Synonyms:	DNAJ1, NDAJB1, HDJ1, Hsp40, HSPF1, DnaJ homolog subfamily B member 1, Dna J protein homolog 1, Heat shock 40 kDa protein 1, HSP40, heat shock protein 40, Human DnaJ protein 1, hDj-1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	3B9.E6
Format:	IgG1

Target Details

Gene Name:	DNAJB1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Hsp40 Antibody was produced in mice by repeated immunizations raised against recombinant Protein Hsp40 (Hdj1).
Purity/Specificity:	Anti-Hsp40 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Hsp40 from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. Does not cross-react with HDJ1 or YDJ1. Cross-reactivity with Hsp40 from other sources has not been determined. Heat Shock research.
Relevant Links:	• NCBI - NP_006136.1 • GeneID - 3337 • UniProtKB - P25685

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-Hsp40 Antibody is tested for use in WB, IP, IHC, IF, and ELISA. Expect a band approximately ~40kDa protein corresponding to the molecular mass of Hsp40 on SDS PAGE immunoblots. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:200
IF:	10ug/ml
IHC:	User Optimized
IP:	User Optimized
WB:	1:2000

Formulation

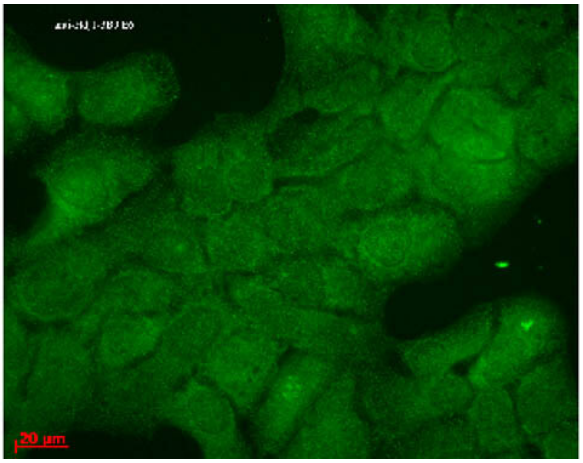
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm

Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence of mouse anti-Hsp40 HDJ1 antibody. Tissue: human keatinocyte line HaCat. Antigen retrieval: not required. Primary Antibody: Hsp40 HDJ1 antibody at 10ug/ml for 1h at RT. Secondary antibody: Fluorescein mouse secondary at 1:10,000 for 45 min at RT. Localization: nuclear and cytoplasmic. Staining: Hsp40 HDJ1 as green fluorescent signal.

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