ARG22206
anti-Hsc 70 antibody [1F2-H5]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1F2-H5] recognizes Hsc 70
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC-P, IP, WB
Specificity	Detects ~73kDa. Does not cross react with HSP70.
Host	Mouse
Clonality	Monoclonal
Clone	1F2-H5
Isotype	IgG2a, kappa
Target Name	Hsc 70
Species	Human
Immunogen	Full length Human HSC70
Conjugation	Un-conjugated
Alternate Names	NIP71; HEL-33; HSPA10; LAP-1; HSC70; HSC71; LAP1; Lipopolysaccharide-associated protein 1; Heat shock 70 kDa protein 8; HSC54; HEL-S-72p; Heat shock cognate 71 kDa protein; HSP71; HSP73; LPS-associated protein 1

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
ICC/IF	1:100
IHC-P	Assay-dependent
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

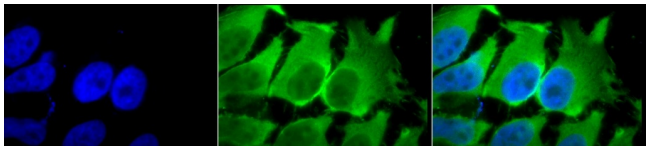
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide

Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

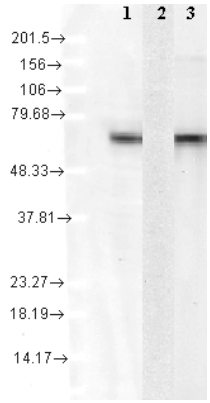
Gene Symbol	HSPA8
Gene Full Name	heat shock 70kDa protein 8
Background	This gene encodes a member of the heat shock protein 70 family, which contains both heat-inducible and constitutively expressed members. This protein belongs to the latter group, which are also referred to as heat-shock cognate proteins. It functions as a chaperone, and binds to nascent polypeptides to facilitate correct folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
Function	Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad-mediated transcription. Chaperone. Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre-mRNA splicing. May have a scaffolding role in the spliceosome assembly as it contacts all other components of the core complex. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes. Participates in the ER-associated degradation (ERAD) quality control pathway in conjunction with J domain-containing co-chaperones and the E3 ligase CHIP. [UniProt]
Calculated Mw	71 kDa
PTM	Acetylated. ISGylated. Trimethylation at Lys-561 reduces fibrillar SNCA binding.
Cellular Localization	Cytoplasm, Melanosome

Images



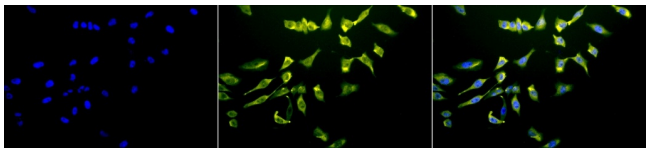
ARG22206 anti-Hsc 70 antibody [1F2-H5] ICC/IF image

Immunocytochemistry: 2% Formaldehyde (20 min at RT) fixed Heat Shocked HeLa cells stained with ARG22206 anti-Hsc 70 antibody [1F2-H5] (green) at 1:100 dilution (12 hours at 4°C). Counterstain: DAPI (blue) nuclear stain at 1:40000 for 120 min at RT. Magnification: 100x. Left: DAPI (blue) nuclear stain, Middle: Primary antibody, Right: Composite.



ARG22206 anti-Hsc 70 antibody [1F2-H5] WB image

Western blot: 15 µg of Human cell lysates stained with ARG22206 anti-Hsc 70 antibody [1F2-H5] at 1:1000 dilution (2 hours at RT).



ARG22206 anti-Hsc 70 antibody [1F2-H5] ICC/IF image

Immunocytochemistry: 2% Formaldehyde (20 min at RT) fixed Heat Shocked HeLa cells stained with ARG22206 anti-Hsc 70 antibody [1F2-H5] (yellow) at 1:100 dilution (12 hours at 4°C). Counterstain: DAPI (blue) nuclear stain at 1:40000 for 120 min at RT. Magnification: 20x. Left: DAPI (blue) nuclear stain, Middle: Primary antibody, Right: Composite.