

ARG62507 anti-Hsp 70 antibody [W27]

Package: 100 μl Store at: -20°C

Summary

Product DescriptionMouse Monoclonal antibody [W27] recognizes Hsp 70Tested ReactivityHu, MkTested ApplicationACS, IC/IF, IHC-P, IP, WBHostMouseClonalityMonoclonalClonalityMonoclonalCloneW27IsotypeIg62a, kappaTarget NameHumanSpeciesHumanInmunogenNorologationConjugationIn-conjugateAlternate NamesBerden State, St		
Tested ApplicationFACS, ICC/IF, IHC-P, IP, WBHostMouseClonalityMonoclonalCloneW27IsotypeIgG2, kappaTarget NameHsp 70SpeciesHumanImmunogenHsp70 protein from HeLa cells.ConjugationHock 70 kpD aprotein 1A, HSP701; Heat shock 70 kpD aprotein 1, HSP701; HSP701; HEL-S-103;	Product Description	Mouse Monoclonal antibody [W27] recognizes Hsp 70
HostMouseClonalityMonoclonalCloneW27IsotypeIg62a, kappaTarget NameHsp 70SpeciesHuman Element E	Tested Reactivity	Hu, Mk
ClonalityMonoclonalCloneW27IsotypeJG2a, kappaTarget NameHsp 70SpeciesHumanImmunogenHsp70 protein from HeLa cells.ConjugationUn-conjugatedHet shock 70 kDa protein 1, HSPA1; HSPA0; Het shock 70 kDa protein 1, HSPA0; HEL-S-103;	Tested Application	FACS, ICC/IF, IHC-P, IP, WB
YCloneW27IsotypeIgG2a, kappaTarget NameHsp 70SpeciesHumanImmunogenHsp70 protein from HeLa cells.ConjugationUn-conjugatedAtternate NamesHeat shock 70 kDD articles from 1, HSP70; Heat shock 70 kDD articles from 1, HSP70; HSP70	Host	Mouse
IsotypeIgG2a, kappaTarget NameHsp 70SpeciesHumanImmunogenHsp70 protein from HeLa cells.ConjugationUn-conjugatedHaternate NamesHeat shock 70 kDa protein 1,3 kDPA1; HSP701; Heat shock 70 kDa protein 1,3 kDPA0; KDPA0	Clonality	Monoclonal
Target NameHsp 70SpeciesHumanImmunogenHsp70 protein from HeLa cells.ConjugationUn-conjugatedAlternate NamesHeat shock 70 kDa protein 1A; HSPA1; HSP701; Heat shock 70 kDa protein 1; HSP70-1A; HEL-S-103;	Clone	W27
SpeciesHumanImmunogenHsp70 protein from HeLa cells.ConjugationUn-conjugatedAlternate NamesHeat shock 70 kDa protein 1A; HSPA1; HSP701; Heat shock 70 kDa protein 1; HSP70-1A; HEL-S-103;	Isotype	IgG2a, kappa
ImmunogenHsp70 protein from HeLa cells.ConjugationUn-conjugatedAlternate NamesHeat shock 70 kDa protein 1A; HSPA1; HSP701; Heat shock 70 kDa protein 1; HSP70-1A; HEL-S-103;	Target Name	Hsp 70
ConjugationUn-conjugatedAlternate NamesHeat shock 70 kDa protein 1A; HSPA1; HSP701; Heat shock 70 kDa protein 1; HSP70-1A; HEL-S-103;	Species	Human
Alternate NamesHeat shock 70 kDa protein 1A; HSPA1; HSP70I; Heat shock 70 kDa protein 1; HSP70-1A; HEL-S-103;	Immunogen	Hsp70 protein from HeLa cells.
	Conjugation	Un-conjugated
	Alternate Names	

Application Instructions

Application table	Application	Dilution
	FACS	0.2 - 20 μg/ml
	ICC/IF	0.2 - 20 μg/ml
	IHC-P	2 - 4 µg/ml
	IP	2 μg/mg of lysate
	WB	0.5 - 4 μg/ml
Application Note	* The dilutions indicate rea should be determined by t	commended starting dilutions and the optimal dilutions or concentrations he scientist.

Properties

Form	Liquid
Purification	Affinity chromatography purification
Buffer	PBS (pH 7.2) and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Concentration	0.2 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 or below. 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

Database links	GenelD: 3308 Human
	Swiss-port # P34932 Human
Gene Symbol	HSPA1A
Gene Full Name	heat shock 70kDa protein 1A
Background	This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq, Jul 2008]
Function	In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage. In case of rotavirus A infection, serves as a post-attachment receptor for the virus to facilitate entry into the cell. Essential for STUB1-mediated ubiquitination and degradation of FOXP3 in regulatory T-cells (Treg) during inflammation. [UniProt]
Highlight	Related products: <u>Hsp70 antibodies: Hsp70 ELISA Kits: Anti-Mouse IgG secondary antibodies:</u> Related poster download: <u>The Structure & Functions of Mitochondria.pdf</u>
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	70 kDa
РТМ	In response to cellular stress, acetylated at Lys-77 by NA110 and then gradually deacetylated by HDAC4 at later stages. Acetylation enhances its chaperone activity and also determines whether it will function as a chaperone for protein refolding or degradation by controlling its binding to co-chaperones HOPX and STUB1. The acetylated form and the non-acetylated form bind to HOPX and STUB1 respectively. Acetylation also protects cells against various types of cellular stress. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs. [UniProt]