

ARG59688 anti-HSPA2 antibody [4A4]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4A4] recognizes HSPA2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	4A4
Isotype	IgG1
Target Name	HSPA2
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 564-598 of Human HSPA2. (KISEQDKNKILDKCQEVINWLDNRNQMAEKDEYEHK)
Conjugation	Un-conjugated
Alternate Names	Heat shock 70 kDa protein 2; Heat shock-related 70 kDa protein 2; HSP70-2; HSP70-3

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 2 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

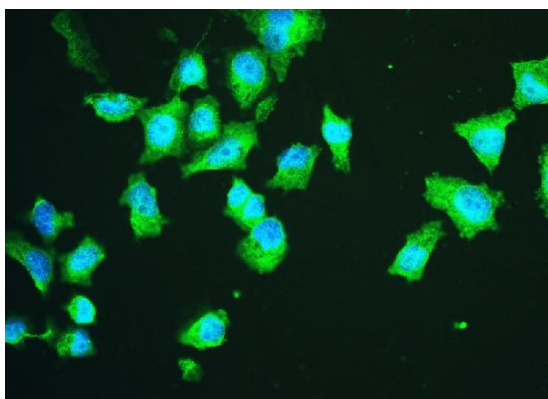
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

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

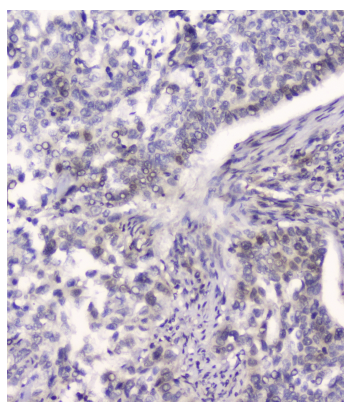
Gene Symbol	HSPA2
Gene Full Name	heat shock 70kDa protein 2
Function	In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all 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. [UniProt]
Calculated Mw	70 kDa
Cellular Localization	Cytoplasm, cytoskeleton, spindle. Note=Colocalizes with SHCBP1L at spindle during the meiosis process. [UniProt]

Images



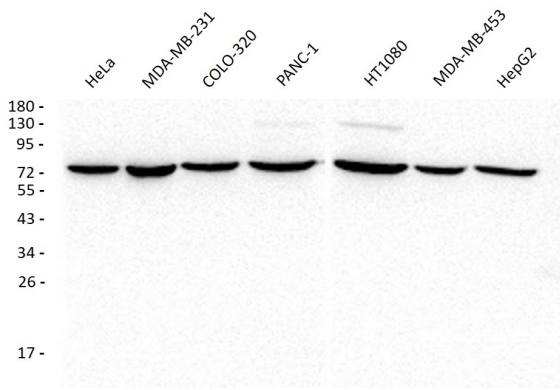
ARG59688 anti-HSPA2 antibody [4A4] ICC/IF image

Immunofluorescence: PC-3 cells were blocked with 10% goat serum and then stained with ARG59688 anti-HSPA2 antibody [4A4] (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



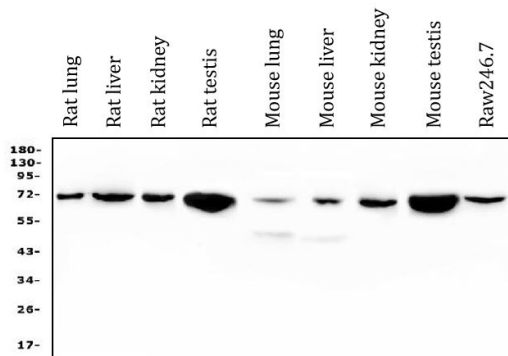
ARG59688 anti-HSPA2 antibody [4A4] IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59688 anti-HSPA2 antibody [4A4] at 2 µg/ml, overnight at 4°C.



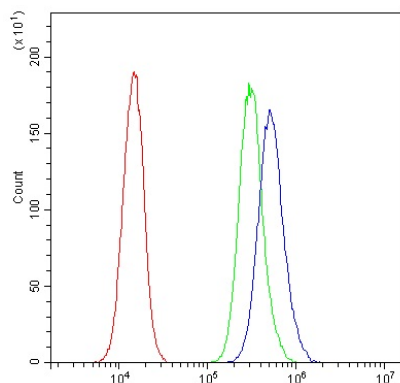
ARG59688 anti-HSPA2 antibody [4A4] WB image

Western blot: 50 µg of samples under reducing conditions. HeLa, MDA-MB-231, COLO-320, PANC-1, HT1080, MDA-MB-453 and HepG2 whole cell lysates stained with ARG59688 anti-HSPA2 antibody [4A4] at 0.5 µg/ml, overnight at 4°C.



ARG59688 anti-HSPA2 antibody [4A4] WB image

Western blot: 50 µg of sample under reducing conditions. Rat lung, Rat liver, Rat kidney, Rat testis, Mouse lung, Mouse liver, Mouse kidney, Mouse testis and Raw246.7 whole cell lysates stained with ARG59688 anti-HSPA2 antibody [4A4] at 0.5 µg/ml dilution, overnight at 4°C.



ARG59688 anti-HSPA2 antibody [4A4] FACS image

Flow Cytometry: PC-3 cells were blocked with 10% normal goat serum and then stained with ARG59688 anti-HSPA2 antibody [4A4] (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.