

## ARG54115 anti-Hsp 27 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody recognizes Hsp 27
Tested Reactivity	Hu, Mk
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	Hsp 27
Species	Human
Immunogen	Purified recombinant human Hsp27 protein fragments expressed in E.coli.
Conjugation	Un-conjugated
Alternate Names	HSP 27; Heat shock 27 kDa protein; HMN2B; HS.76067; SRP27; HEL-S-102; HspB1; CMT2F; 28 kDa heat shock protein; HSP27; Heat shock protein beta-1; Hsp25; Estrogen-regulated 24 kDa protein; Stress-responsive protein 27; HSP28

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:300
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	27 kDa	

### Properties

Form	Liquid
Purification	Affinity purified
Buffer	PBS (pH 7.4), 0.2% Sodium azide, 50% Glycerol and 0.1%BSA
Preservative	0.2% Sodium azide
Stabilizer	50% Glycerol, 0.1%BSA
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

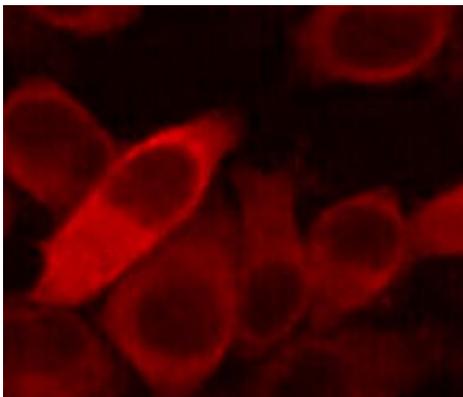
For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Database links	<a href="#">GeneID: 3315 Human</a> <a href="#">Swiss-port # P04792 Human</a>
Gene Symbol	HSPB1
Gene Full Name	heat shock 27kDa protein 1
Background	Involved in stress resistance and actin organization.
Function	Involved in stress resistance and actin organization. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Signaling Transduction antibody
Calculated Mw	23 kDa
PTM	Phosphorylated upon exposure to protein kinase C activators and heat shock (PubMed:8325890). Phosphorylation by MAPKAPK2 and MAPKAPK3 in response to stress dissociates HSPB1 from large small heat-shock protein (sHsps) oligomers and impairs its chaperone activity and ability to protect against oxidative stress effectively. Phosphorylation by MAPKAPK5 in response to PKA stimulation induces F-actin rearrangement (PubMed:1332886, PubMed:8093612, PubMed:19166925).
Cellular Localization	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, spindle.

## Images



ARG54115 anti-Hsp 27 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG54115 anti-Hsp 27 antibody at 1:300 dilution.



A431

ARG54115 anti-Hsp 27 antibody WB image

Western blot: A431 cell lysate stained with ARG54115 anti-Hsp 27 antibody at 1:1000 dilution.