

ARG51735 anti-Hsp 27 phospho (Ser82) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Hsp 27 phospho (Ser82)
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Hsp 27
Species	Human
Immunogen	Peptide sequence around phosphorylation site of serine 82 (Q-L-S(p)-S-G) derived from Human Hsp27.
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
	IHC-P	1:50 - 1:100
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

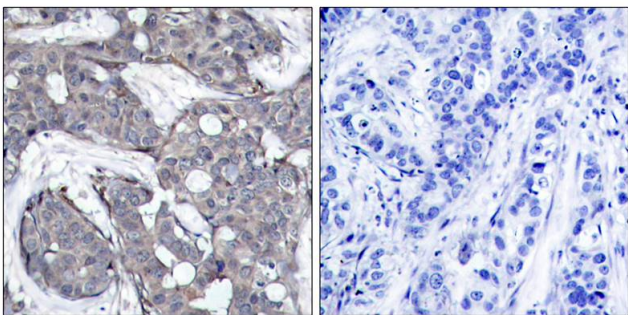
Properties

Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% 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.

Bioinformation

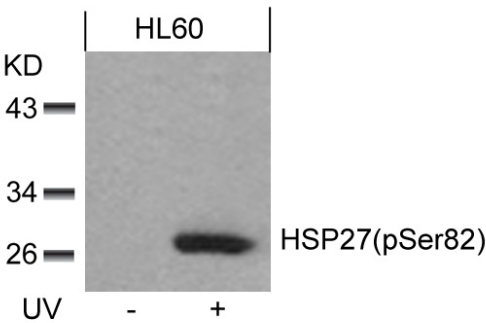
Database links	GeneID: 3315 Human Swiss-port # P04792 Human
Gene Symbol	HSPB1
Gene Full Name	heat shock 27kDa protein 1
Background	Involved in stress resistance and actin organization.
Function	Involved in stress resistance and actin organization. [UniProt]
Research Area	Cancer antibody; Cell Biology 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).

Images



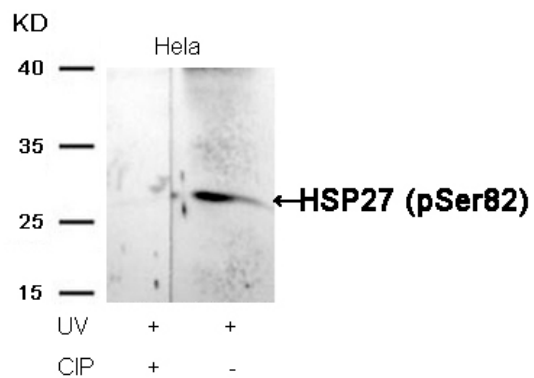
ARG51735 anti-Hsp 27 phospho (Ser82) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51735 anti-Hsp 27 phospho (Ser82) antibody (left) or the same antibody preincubated with blocking peptide (right).



ARG51735 anti-Hsp 27 phospho (Ser82) antibody WB image

Western blot: Extracts from HL60 cells untreated or treated with UV and stained with ARG51735 anti-Hsp 27 phospho (Ser82) antibody.



ARG51735 anti-Hsp 27 phospho (Ser82) antibody WB image

Western blot: Extracts from HeLa cells, treated with UV or calf intestinal phosphatase (CIP), stained with ARG51735 anti-Hsp 27 phospho (Ser82) antibody.