

# HSP27 (HSPB1) Antibody (S83)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP7199a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P04792</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB13086
<b>Antigen Region</b>	61-90

## Additional Information

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<b>Other Names</b>	Heat shock protein beta-1, HspB1, 28 kDa heat shock protein, Estrogen-regulated 24 kDa protein, Heat shock 27 kDa protein, HSP 27, Stress-responsive protein 27, SRP27, HSPB1, HSP27, HSP28
<b>Target/Specificity</b>	This HSP27(HSPB1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 61-90 amino acids from human HSP27(HSPB1).
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	HSP27 (HSPB1) Antibody (S83) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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### Background

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In response to adverse changes in their environment, cells from many organisms increase the expression of a class of proteins referred to as heat shock or stress proteins. HSPB1 exhibits rapid increased phosphorylation in response to various mitogens, tumor promoters (e.g. phorbol esters) and calcium ionophores, and high levels are associated with carcinoma of the breast and with endometrial adenocarcinomas. Heat shock of HeLa cell cultures, or treatment with arsenite, phorbol ester, or tumor

necrosis factor, causes a rapid phosphorylation of preexisting HSBP1, with Ser82 as the major site and Ser78 the minor site of phosphorylation. HSBP1 may exert phosphorylation-activated functions linked with growth signaling pathways in unstressed cells. A homeostatic function at this level could protect cells from adverse effects of signal transduction systems which may be activated inappropriately during stress.

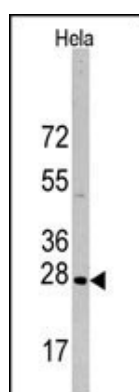
## References

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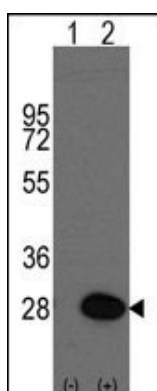
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## Images

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Western blot analysis of HSPB1 Antibody (S83) (Cat.#AP7199a) in HeLa cell line lysates (35ug/lane). HSPB1 (arrow) was detected using the purified Pab.



Western blot analysis of HSPB1(arrow) using rabbit polyclonal HSPB1 Antibody (S83) (Cat.#AP7199a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the HSPB1 gene (Lane 2) (Origene Technologies).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.