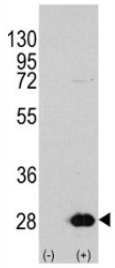
HSPB1 Antibody (F50183)

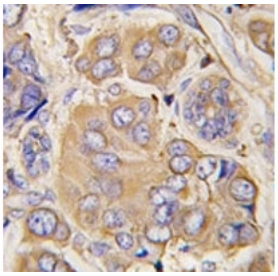
Catalog No.	Formulation	Size
F50183-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50183-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P04792
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50
Limitations	This HSPB1 antibody is available for research use only.



Western blot analysis of HSPB1 antibody and 293 cell lysate either nontransfected (Lane 1) or transiently transfected with the HSPB1 gene (2).



IHC analysis of FFPE human breast carcinoma tissue stained with HSPB1 antibody

Description

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. HSBP1 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.

Application Notes

Titration of the HSPB1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 56-85 from the human protein was used as the immunogen for this HSPB1 antibody.

Storage

Aliquot the HSPB1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.