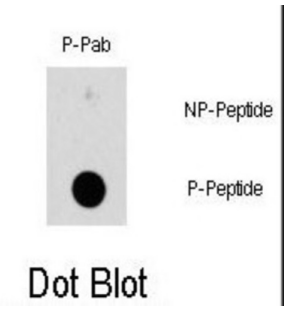
# HSPB1 (pS78) Antibody

Catalogue No.:abx031954




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.

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| **Target:** | HSPB1 (pS78) |
| **Clonality:** | Polyclonal |
| **Target Modification:** | Ser78 |
| **Modification:** | Phosphorylation |
| **Reactivity:** | Human |
| **Tested Applications:** | ELISA, WB, DB |
| **Host:** | Rabbit |
| **Recommended dilutions:** | WB: 1/500, DB: 1/500. Optimal dilutions/concentrations should be determined by the end user. |
| **Conjugation:** | Unconjugated |
| **Immunogen:** | KLH-conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S78 of human HSPB1. |
| **Isotype:** | IgG |
| **Form:** | Liquid |




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| **Purification:** | Purified through a protein A column, followed by two-step phosphospecific peptide affinity purification. |
| **Storage:** | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles. |
| **UniProt Primary AC:** | P04792 (UniProt, ExPASy) |
| **KEGG:** | hsa:3315 |
| **String:** | 9606.ENSP00000248553 |
| **Molecular Weight:** | Calculated MW: 22.8 kDa |
| **Buffer:** | PBS containing 0.09% sodium azide. |
| **Note:** | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |




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