#3059 Store at -20°C

HSPB8/HSP22 Antibody

☑ 100 µl
(10 Western mini-blots)

Cell Signaling TECHNOLOGY®

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 09/02/08

Entrez-Gene ID #26353
Swiss-Prot Acc. #Q9UJY1

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	22 kDa	Rabbit**

Background: HSPB8 (HSP22) is a member of the small heat shock protein superfamily and the human protein is most closely related to HSP27. Similar to most other small HSPs (sHSPs), HSPB8 is predominantly transcribed in skeletal muscle and heart (1). In a two hybrid screen, HSPB8 interacted preferentially with a triple aspartate form of HSP27 which mimics HSP27 phosphorylated at Ser15, Ser78, and Ser82, as compared to wild-type HSP27 (2). HSPB8 has two binding domains (N- and C-terminal) that are specific for different binding partners, and has the ability to bind to itself and other sHSPs such as HSPB7 and HSPB2 (3). The chaperone-like activity is of great importance to the function of HSP22 in various processes including proliferation, apoptosis and macroautophagy (4).

Specificity/Sensitivity: HSPB8/HSP22 Antibody detects endogenous levels of total HSPB8/HSP22 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to human HSPB8/HSP22. Antibodies are purified by protein A and peptide affinity chromatography.

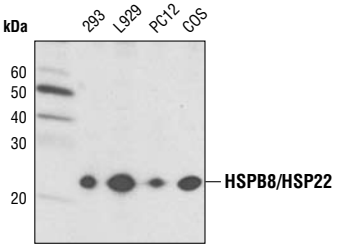
Background References:

(1) Kappé, G. et al. (2001) *Biochim Biophys Acta* 1520, 1–6.

(2) Benndorf, R. et al. (2001) *J Biol Chem* 276, 26753–61.

(3) Sun, X. et al. (2004) *J Biol Chem* 279, 2394–402.

(4) Kim, M.V. et al. (2004) *Biochem Biophys Res Commun* 325, 649–52.



Western blot analysis of extracts from various cell lines using HSPB8/HSP22 Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C.
Do not aliquot the antibody.

***Species cross-reactivity is determined by Western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:
Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Companion Products:

Phospho-HSP27 (Ser15) Antibody #2404

Phospho-HSP27 (Ser78) Antibody #2405

Phospho-HSP27 (Ser82) Antibody #2401

Phospho-HSP27 (Ser82) Antibody II #2406

HSP27 (G31) Mouse mAb #2402

Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071

Anti-rabbit IgG, HRP-linked Antibody #7074

Prestained Protein Marker, Broad Range (Premixed Format) #7720

Biotinylated Protein Ladder Detection Pack #7727

20X LumiGLO® Reagent and 20X Peroxide #7003

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebra fish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% sequence homology.