

#3059 Store at -20C	HSPB8/HSP22 Antibody	
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	22	Rabbit	#Q9UJY1	26353

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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.

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 corresponding to human HSPB8/HSP22. Antibodies are purified by protein A and peptide affinity chromatography.

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).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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