

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Detects human, mouse, and rat HSPB8 in direct ELISAs and Western blots.                                                                                                                                                                                                     |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 520817                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human HSPB8<br>Ala2-Thr196<br>Accession # Q9UJY1                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

Heat shock protein beta-8 (HSPB8, also HSP22 or CRYAC) is a 22-25 kDa member of the small HSP (HSP20) family of proteins. It is expressed in muscle (smooth, skeletal and cardiac), and serves as a molecular chaperone. Human HSPB8 contains one  $\alpha$ -crystalline domain (aa 93-170) that mediates protein-protein interaction, and N- plus C-terminal flanking sequences that generate homodimers, homooligomers, and heterodimers with HSP27 and HSPB7. Phosphorylation at Ser57 blocks HSPB8 chaperone activity. Human HSPB8 shares 94% aa identity with both mouse and canine HSPB8. Deficiencies in HSPB8 are involved in distal motor neuropathy type 11A.

#### PRODUCT SPECIFIC NOTICES

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