

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat HSPB8 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 520817
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HSPB8 Ala2-Thr196 Accession # Q9UJY1
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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 α -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.

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