Human/Mouse/Rat HSPB8 Antibody

Monoclonal Mouse IgG_1 Clone # 520817

Catalog Number: MAB4987

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	*E. coli*-derived recombinant human HSPB8 Ala2-Thr196 Accession # Q9UJY1
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

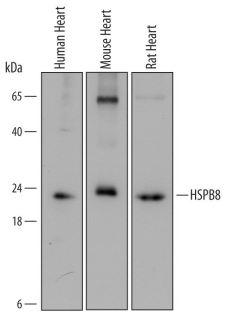
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human, Mouse, and Rat HSPB8 by Western Blot. Western blot shows lysates of human, mouse, and rat heart tissue. PVDF Membrane was probed with 0.5 µg/mL of Mouse Anti-Human/Mouse/Rat HSPB8 Monoclonal Antibody (Catalog # MAB4987) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for HSPB8 at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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