RDSYSTEMS a biotechne brand

Human/Mouse/Rat HSPB8 Antibody

Monoclonal Mouse IgG₁ 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	<i>E. coli</i> -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 either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Western Blot 0.5 μg/mL See Below Vestern Blot Detection of Human, Mouse, and Rat HSPB8 by Western Blot, Western Blot western Blot actives and rat heart issue. PVDF Membrane was probed wh 0.5 g/mL of Muse Anti-Human/MouseRat HSPB8 Monodonal Antibody (Catalog # MAR4987) followed by HRP- conjugated Anti-Muse HQAE987 followed by HRP- conjugated Anti-Muse HQAE987 experiment was conducted under reducing conditions and using Immunobiol Buffer Group 2. PPECPARATION AND STORAGE Reconstitute at 0.5 mg/mL in sterile PBS. Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at -20 to -70 °C 'Stability & Storage Lea manual defrost freezer and avoid repeated freeze-thaw cycles. E 12 months from date of receipt, -20 to -70 °C cared supplied. 0 month, 2 to 8 °C undre sterile conditions after r		Recommended Sample Concentration
Western Blot Detection of Human, Mouse, and Rat HSPB8 by No 9 00 9 01 9 02 9 03 9 04 9 05 9 04 9 05 9 04 9 05 9 05 9 06 9 07 9 06 9 06 9 07 9 06 9 07 9 06 9 07 9 06 9 06 9 06 9 06 9 07 8 06 9 07 8 06 9 07 9 06 9 06 9 07 9 07 8 08 9 08 9	Nestern Blot	0.5 μg/mL See Below
Western Blot Detection of Human, Mouse, and Rat HSPB8 by Western Blot. Western Blot. Western blot shows lysates of human, mouse, and rat heart tissue. PVDF Membrane was probed with 0.5 updmL of Mouse Anti-Human/Mouse/Rat HSPB8 Monoctonal Antibody (Catalog # MAB4987) followed by HRP-conjugated Anti-Mouse B(G Secondary Antibody (Catalog # HAP07). 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. PREFEARATION 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 freezet-thaw cycles. 1 2 months from date of receipt, -20 to -70 °C as supplied.		
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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. 	kDa 65	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 Immunohalt Buffer Group. 2
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.		
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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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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449