

DESCRIPTION

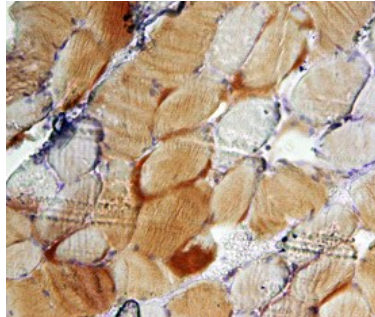
Species Reactivity	Human
Specificity	Detects human SRPK3 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 722516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SRPK3 Arg247-Ser316 Accession # Q9UPE1
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	1 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human SRPK3 by Western Blot. Western blot shows lysates of human skeletal muscle tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human SRPK3 Monoclonal Antibody (Catalog # MAB72301) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for SRPK3 at approximately 59 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>SRPK3 in Human Skeletal Muscle. SRPK3 was detected in immersion fixed paraffin-embedded sections of human skeletal muscle using Mouse Anti-Human SRPK3 Monoclonal Antibody (Catalog # MAB72301) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to muscle cell cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <ul style="list-style-type: none"> • 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

SRPK3 (Ser/Arg-rich protein specific kinase 3), also called MSSK-1 (muscle-specific serine kinase 1) or STK23 (Ser/Thr kinase 23) is a 59 kDa (predicted) cytoplasmic member of the CMGC Ser/Thr protein kinase family. SRPK3 is principally expressed in heart and skeletal muscle. SRPKs selectively phosphorylate Ser on RS domain-containing proteins, initiating mRNA splicing and maturation. The 533 amino acid (aa) human SRPK3 contains a split kinase domain (aa 79-292 and 347-531) separated by a hinge region. A 491 aa isoform shows an alternate translation start site at aa 43. Within the region used as an immunogen, human SRPK3 shares 87% and 86% aa identity with mouse and rat SRPK3, respectively.