

DESCRIPTION

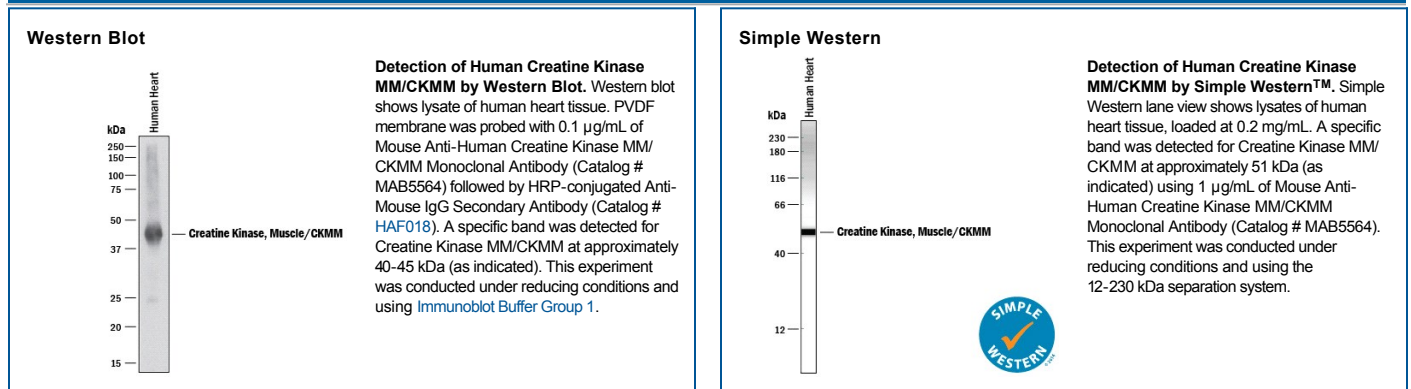
Species Reactivity	Human
Specificity	Detects human Creatine Kinase, Muscle/CKMM in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 492731
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human cardiac muscle-derived Creatine Kinase, Muscle/CKMM
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	0.1 µg/mL	See Below
Simple Western	1 µg/mL	See Below

DATA



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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

Creatine kinase (CK) is a 40 kDa cytoplasmic enzyme that is integral to energy metabolism in striated muscle through the maintenance of ATP levels. It is a dimeric protein composed of tissue specific M (muscle) and B (brain) subunits. The homodimeric CKMM isozyme is predominantly expressed in differentiated skeletal and cardiac muscle fibers. The M subunit of human creatine kinase shares 97% aa sequence identity with the mouse and rat M subunit and 81% with the human B subunit.