Recombinant Creatine Kinase MM (Biomarker for Muscular Injury & Cardiac Damage) Antibody

Rabbit Monoclonal Antibody [Clone CKMM/13033R]

Catalog No	Format	Size
1158-RBM8-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1158-RBM8-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1158-RBM8-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

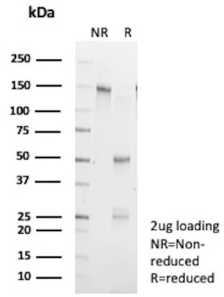
Applications	Tested Dillution	Note

Product Details

Clone	CKMM/13033R
Gene Name	CKM
Immunogen	Recombinant human CKM protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	43kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human
Positive Control	Human heart tissue. Skeletal muscle lysate.

**Optimal dilution for a specific application should be determined.*

Product Images for Recombinant Creatine Kinase MM (Biomarker for Muscular Injury & Cardiac Damage) Antibody



SDS-PAGE Analysis of Purified Creatine Kinase MM Rabbit Recombinant Monoclonal Antibody (CKMM/13033R). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

Creatine kinases (CKs) are a large family of isoenzymes that regulate levels of ATP in subcellular compartments, where they provide ATP at sites of fluctuating energy demand by the transfer of phosphates between creatine and adenine nucleotides. Creatine kinases provide the energy of phosphate hydrolysis necessary to drive the normal function of many cellular systems including muscle, electrocytes, retina photoreceptor cells, brain cells, kidney, salt glands, myometrium, placenta, pancreas, thymus, thyroid, intestinal epithelial cells, endothelial cells, cartilage and bone cells, macrophages, blood platelets, and tumor and cancer cells. Human cytoplasmic creatine kinase-B, also designated CK-B and BCK, is a 381 amino acid, brain tissue-specific isoform of creatine kinase. Human cytoplasmic creatine kinase-M (CK-M, MCK) is a muscle tissue specific isoform of creatine kinase. Human cytoplasmic creatine kinase-Mi (Mi-CK, MtCK) is a 416 amino acid mitochondrial-specific isoform of creatine kinase. Cytosolic creatine kinases are important in the energetic regulation of Ca2+-pumps and in the maintenance of Ca2+-homeostasis. The antibody binds specifically to the human creatine-kinase-MM subtype (and not the MB or BB subtype). This antibody binds to human muscle creatine-kinase-MM, an enzyme that catalyzes the conversion of creatine and ATP to phosphocreatine and ADP, generating an ATP-buffer in the muscle. The antibody blocks CK-MM activity by 80%.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.