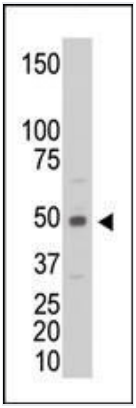
CKMM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

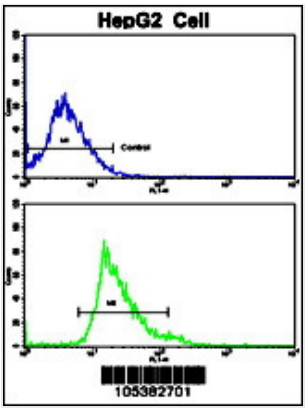
Product Name	CKMM, Polyclonal Antibody
Full Product Name	CKMM, CT (Creatine Kinase M-type, Creatine Kinase M Chain, M-CK, CKM) (APC)
Product Gene Name	anti-CKMM antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human CKM.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	43,101 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (45809671..45826235, complement). Location: 19q13.32
OMIM	123310
3D Structure	ModBase 3D Structure for P06732
Immunogen	Synthetic peptide selected from the C-terminal region of human CKM (KLH).
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CKMM antibody	Antibodies; Enzymes; Creatine Kinase
Applications Tested/Suitable for anti-CKMM antibody	Western Blot (WB), FLISA
Application Notes for anti-CKMM antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CKMM antibody	MBS6470546 is an antibody targeting CKMM. Also known as CKMM, CT (Creatine Kinase M-type, Creatine Kinase M Chain, M-CK, CKM) (APC). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CKMM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CKMM antibody
The anti-CKM Pab is used in Western blot to detect CKM in C6 cell lysate.



Immunohistochemistry (IHC) of anti-CKMM antibody
Formalin-fixed and paraffin-embedded human skeletal muscle reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Flow Cytometry (FC/FACS) of anti-CKMM antibody
Flow cytometric analysis of HepG2 cells using Creatine Kinase MB (CKM) Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKMM. It may not necessarily be applicable to this product.

NCBI GI #	21536288
NCBI GeneID	1158
NCBI Accession #	NP_001815.2
UniProt Primary Accession #	P06732
UniProt Secondary Accession #	Q96QL9
UniProt Related Accession #	P06732
GenBank Nucleotide #	NM_001824.4
NCBI Official Full Name	creatine kinase M-type
NCBI Official Synonym Full Names	creatine kinase, muscle
NCBI Official Symbol	CKM
NCBI Official Synonym Symbols	CKMM; M-CK
UniProt Protein Name	Creatine kinase M-type
UniProt Synonym Protein Names	Creatine kinase M chain; M-CK

UniProt Gene Name	CKM
UniProt Synonym Gene Names	CKMM
UniProt Entry Name	KCRM_HUMAN
NCBI Protein Information	creatine kinase M-type; creatine kinase M chain
NCBI Summary for CKMM	The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. [provided by RefSeq, Jul 2008]
UniProt Comments for CKMM	CKM: Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. Belongs to the ATP:guanido phosphotransferase family. Protein type: EC 2.7.3.2; Kinase, other; Amino Acid Metabolism - arginine and proline Chromosomal Location of Human Ortholog: 19q13.32 Cellular Component: cytosol Molecular Function: creatine kinase activity; ATP binding Biological Process: phosphocreatine biosynthetic process; phosphorylation; creatine metabolic process
Research Articles on CKMM	**1.** The current enzymatic definition of procedural myocardial infarct (MI) (CK-myocardial band more than 3 times the upper limit of normal) used in clinical trials is less strongly associated with death than that of spontaneous MI.
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