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Anti-Creatine Kinase M Antibody

Rabbit polyclonal antibody to Creatine Kinase M
Catalog # AP59516

Product Information

Application	WB, IP, IF/IC, IHC
Primary Accession	P06732
Other Accession	P07310
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43101

Additional Information

Gene ID	1158
Other Names	CKMM; Creatine kinase M-type; Creatine kinase M chain; M-CK
Target/Specificity	Recognizes endogenous levels of Creatine Kinase M protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500), IP (1/10 - 1/100) IP~~N/A IF/IC~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500), IP (1/10 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

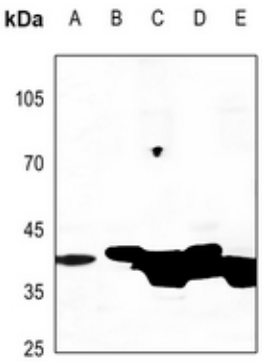
Protein Information

Name	CKM
Synonyms	CKMM
Function	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.
Cellular Location	Cytoplasm.

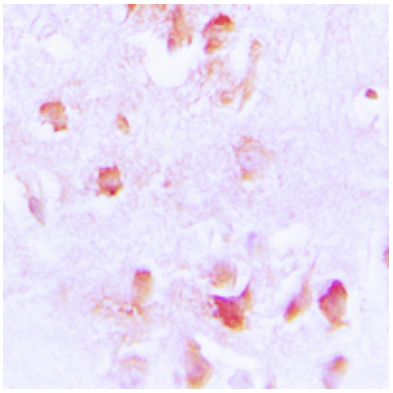
Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Creatine Kinase M. The exact sequence is proprietary.

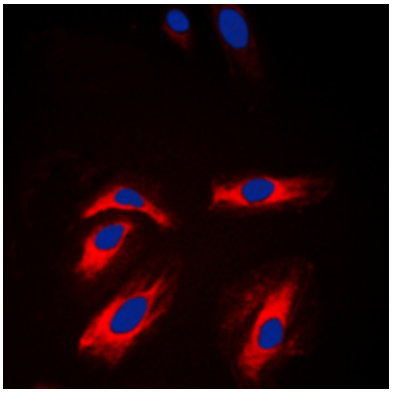
Images



Western blot analysis of Creatine Kinase M expression in MCF7 (A), mouse brain (B), mouse muscle (C), rat brain (D), rat muscle (E) whole cell lysates.



Immunohistochemical analysis of Creatine Kinase M staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Creatine Kinase M staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).