



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Rabbit anti- CKM antibody

Catalog No.
130-10054

Isotype:
Rabbit Ig G

Speceis:
Human

Accession No:
P06732

Description

Creatine Kinase, Muscle (CKM) is a cytoplasmic enzyme reversibly catalyzing the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). CKM protein belongs to ATP: guanido phosphotransferase protein family. It only presents in skeletal and cardiac muscle tissues at high levels. CKM involves in energy transduction and is an important serum marker for myocardial infarction.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:10000 (at least detecting 100 ng/ml)
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was fully length of recombinant expressed human CKM. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum by ammonium sulphate precipitation, and followed by Protein A/G affinity chromatography.

Binding Activity

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse and rat CKM was not tested yet.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. *It final concentration is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at -20°C to -70°C . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can also be stored over months at 4°C . **Please avoid freeze-thaw cycles.**

Storage

Keep it at 4°C if intended for use within a month. Store at -20°C if not be used over months. **Minimize freezing and thawing when use.**

Related products

- 1 Recombinant Human Creatine Kinase (Muscle) (cat# 230-00038-2)
- 2 Mouse Anti-Human Creatine Kinase MB (cardiac-specific) (cat# DS-MB-01069)

Reference

1. Perryman M.B., et al. (1986) Isolation and sequence analysis of a full-length cDNA for human M creatine kinase. *Biochem. Biophys. Res. Commun.* 140:981-989.
2. Trask R.V., et al. (1988) Developmental regulation and tissue-specific expression of the human muscle creatine kinase gene. *J. Biol. Chem.* 263:17142-17149.

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