

Rabbit anti-human Creatine kinase-MB (CKMB) monoclonal antibody, clone 8F1
Catalog Number: LT_R003

General Information

Immunogen	Full length native human CKMB protein
IgG type	Rabbit IgG
Clonality	monoclonal
Applications	TIA, ELISA, WB
Catalog Number	LT_R003
Specificity	Human CKMB
Formulation	0.22 µM filtered solution of PBS, pH 7.4
Purity	> 95% determined by SDS-PAGE
Storage	≤ -20 °C for 1 year or 4 °C for 3 months

Abbreviations:

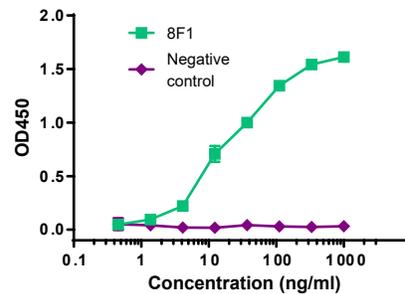
ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immuno-histochemistry; IF: immunofluorescence. WB: western blot;

Preparation

Monoclonal antibody is produced by immunizing rabbit with full length native human CKMB and purified using protein A resin.

Application

ELISA



ELISA conditions

- 1) Antigen: human CKMB protein at 1.0 µg/ml
- 2) detection antibody: rabbit anti-CKMB monoclonal antibody (clone 8F1, LT_R003) at initial 1.0 µg/ml followed by 1:3 serial dilutions.

Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

Hazard/Biohazard

This antibody contains 0.09% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

Background

Creatine kinase (CK) is a dimeric enzyme expressed by diverse tissues and cell types with calculated molecular weight of 86 KD for dimer and 43 KD for monomer. CK converts creatine to phosphocreatine by consuming ATP. It has two distinct types of subunits CKM (muscle type) and CKB (brain type), generating three combinations: CKMM, CKMB, CKBB. CKBB is found in brain and smooth muscle as well as in other tissues and cells such as neuronal cells, retina, kidney, and bone. CKMM is predominantly expressed in skeletal and cardiac muscles. CKMB heterodimer is found prominently in heart and released upon myocardial infarction. CKMB is an important serum marker for myocardial infarction.