

DATASHEET

Version: 2016-08-17

Creatine kinase MB Antibody, pAb, Rabbit**Cat. No.:** A01456-40**Size:** 40 µg**Synonyms:** CKMB antibody;**Description:**

Creatine kinase (CK) is a major enzyme involved in energy metabolism in tissues with large fluctuations of energetic demand. CK catalyses the reversible transfer of a high energy phosphoryl group between ATP and phosphocreatine.

Creatine kinase consists of B subunit (brain type) and M subunit (muscle type) and therefore three different cytosolic isoenzymes exist: CK-MM, CK-BB and CK-MB. The major muscle isoform, CK-MM, is a homodimer of the M subunit. In contrast to muscle, the major creatine kinase isoform in brain is BB creatine kinase. In a few tissues, especially myocardium, a heterodimeric isoform MB creatine kinase is present.

GenScript Rabbit Anti-Creatine kinase MB Polyclonal

Antibody is developed in rabbit using a KLH-coupled synthetic peptide within residues 300~350 of human Creatine kinase M (Swiss Prot: P06732) and Creatine kinase B (Swiss Prot: P12277).

Immunogen: KLH-coupled synthetic peptide within residues 300-350 of human Creatine kinase M (Swiss Prot: P06732) and Creatine kinase B (Swiss Prot: P12277)

Host: Rabbit**Antigen Synonyms:** Human**Conjugation:** Unconjugated**Formulation:**

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Example**Ig Subclass:** Rabbit IgG

Specificity: GenScript Rabbit Anti-Creatine kinase MB Polyclonal Antibody detects endogenous levels of human, mouse and rat Creatine kinase M and Creatine kinase B.

Positive Control: HEK293, SH-SY5Y, mouse brain and rat brain.

Purification: Immunoaffinity chromatography**Applications:**

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western blot: 0.5-1 µg/ml

Immunohistochemistry: 5-10 µg/ml **Other Applications:** user-optimized

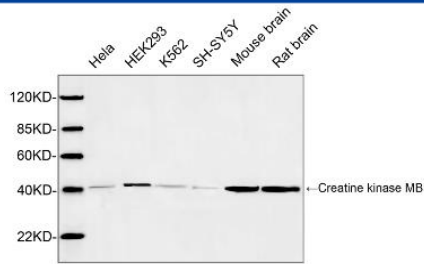
Species Reactivity: Human, mouse, and rat. This product has not been tested for other species yet.

Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

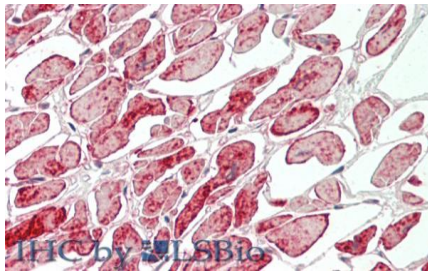


Western blot analysis of cell and tissue lysates using 1 µg/ml Rabbit Anti-Creatine kinase MB Polyclonal Antibody (GenScript, A01456)

The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.

Predicted Size: Creatine kinase M 43 KD Creatine kinase B 43 KD

Observed Size: Creatine kinase M 43 KD Creatine kinase B 43 KD



Immunohistochemistry analysis of human heart tissue slide (Paraffin embedded) using Creatine kinase MB Antibody, pAb, Rabbit (GenScript, Cat.No. A01456, 10 µg/ml)