

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## **CKMT1A/CKMT1B RABBIT PAB**

Cat.#: S222319

**Product Name:** Anti-CKMT1A/CKMT1B Rabbit Polyclonal Antibody

**Synonyms:** CKMT1; U-MtCK; mia-CK; CKMT; UMTCK

UNIPROT ID: P12532 (Gene Accession - NP\_066270)

**Background:** Mitochondrial creatine (MtCK) kinase is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Many malignant cancers with poor prognosis have shown overexpression of ubiquitous mitochondrial creatine kinase; this may be related to high energy turnover and failure to eliminate cancer cells via apoptosis. Ubiquitous mitochondrial creatine kinase. Two genes located near each other on chromosome 15 have been identified which encode identical mitochondrial creatine kinase proteins.

**Immunogen:** Synthetic peptide of human CKMT1A/CKMT1B

Applications: ELISA, WB, IHC

**Recommended Dilutions:** IHC: 50-100;WB: 500-2000;ELISA: 5000-10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG

Purification: Antigen affinity purification

Species Reactivity: Human, Mouse

**Constituents:** PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

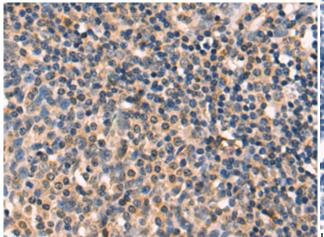
Research Areas: Metabolism, Cancer

**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing

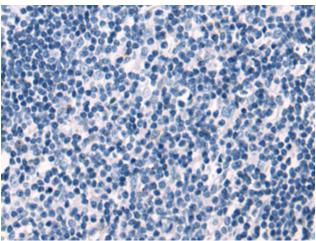


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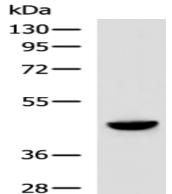
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Immunohistochemistry analysis of paraffin embedded Human tonsil tissue using 222319(CKMT1A/CKMT1B Antibody) at a dilution of 1/45(Cytoplasm).



In comparision with the IHC on the left, the same paraffin-embedded Human tonsil peptide and then with 222319(Anti-CKMT1A/CKMT1B Antibody) at dilution 1/45.



Gel: 8%SDS-PAGE, Lysate: 40 µg; Lane: Mouse heart tissue lysate; Primary antibody: 222319(CKMT1A/CKMT1B Antibody) at dilution 1/450; Secondary antibody: HRP-conjugated Goat anti rabbit IgG at 1/5000 dilution; Exposure time: 20 seconds