

## CKMT1A/CKMT1B RABBIT PAB

**Cat.#:** S219941

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

**Synonyms:** CKMT; CKMT1; 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 has 80% homology with the coding exons of sarcomeric 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: 40-200;WB: 500-2000;ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

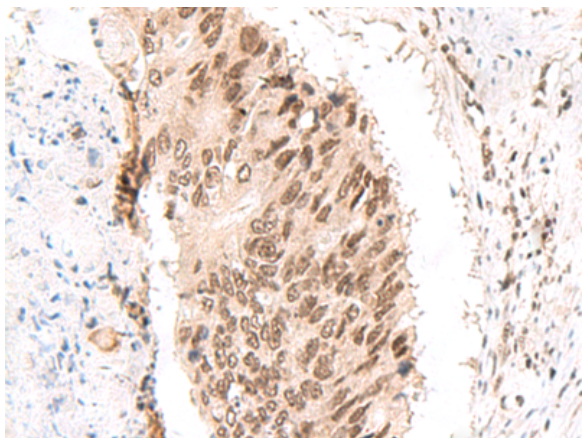
**Purification:** Antigen affinity purification

**Species Reactivity:** Human

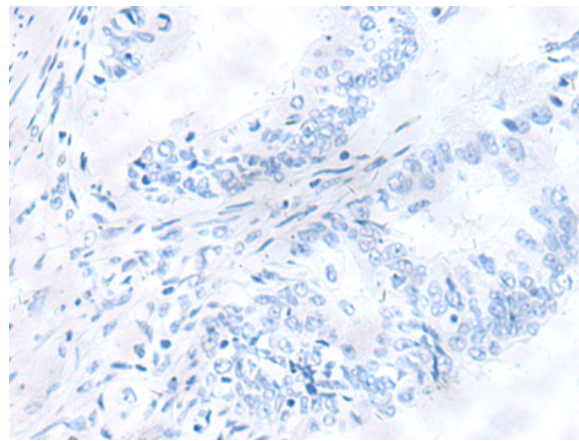
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Metabolism, Cancer

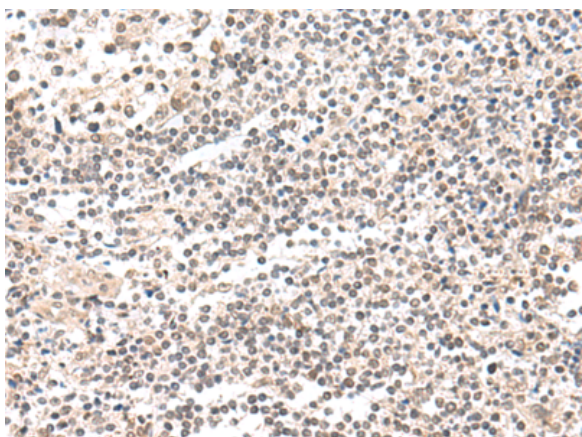
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



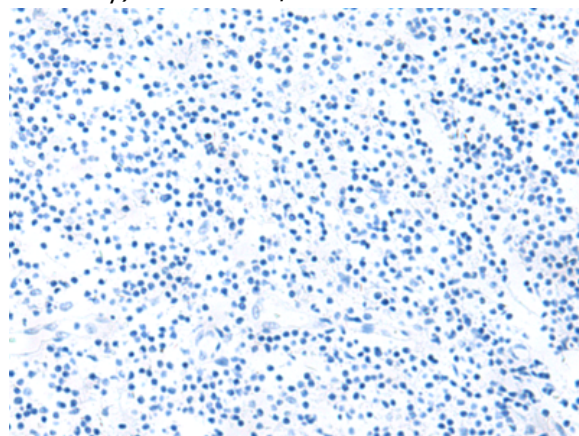
Immunohistochemistry analysis of paraffin embedded Human colorectal cancer tissue using 219941(CKMT1A/CKMT1B Antibody) at a dilution of 1/55(Cytoplasm and Nucleus).



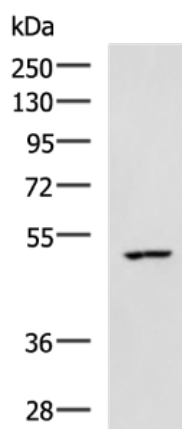
In comparison with the IHC on the left, the same paraffin-embedded Human colorectal cancer tissue is first treated with the synthetic peptide and then with 219941(Anti-CKMT1A/CKMT1B Antibody) at dilution 1/55.



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using 219941(Anti-CKMT1A/CKMT1B Antibody) at a dilution of 1/55.



In comparison with the IHC on the left, the same paraffin-embedded Human tonsil tissue is first treated with synthetic peptide and then with D260658(Anti-CKMT1A/CKMT1B Antibody) at dilution 1/55.



Gel: 8%SDS-PAGE, Lysate: 40 µg;  
Lane: MCF7 cell lysate;  
Primary antibody: 219941(CKMT1A/CKMT1B Antibody) at dilution 1/600;  
Secondary antibody: HRP-conjugated Goat anti rabbit IgG at 1/5000 dilution;  
Exposure time: 1 minute



# Product Description

Pioneering GTPase and Oncogene Product Development since 2010

---