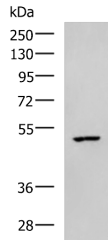
Tel:240-252-7368(USA)
Fax: 240-252-7376(USA)
techsupport@elabscience.com
Website: www.elabscience.com

CKMT1A/CKMT1B Polyclonal Antibody

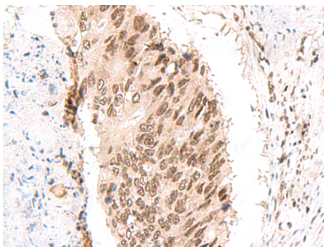
Catalog No.	E-AB-19301	**Reactivity**	H
Storage	Store at -20℃. Avoid freeze / thaw cycles.	**Host**	Rabbit
Applications	WB,IHC,ELISA	**Isotype**	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

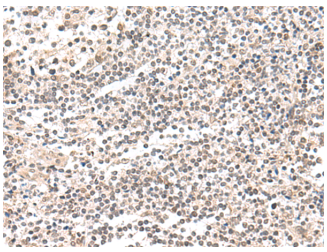
Images



Western blot analysis of MCF7 cell lysate using CKMT1A/CKMT1B Polyclonal Antibody at dilution of 1:600



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using CKMT1A/CKMT1B Polyclonal Antibody at dilution of 1:55(×200)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using CKMT1A/CKMT1B Polyclonal Antibody at dilution of 1:55(×200)

Immunogen Information

Immunogen	Synthetic peptide of human CKMT1A/CKMT1B
Gene Accession	NP066270
Swissprot	P12532
Synonyms	CKMT,CKMT1,CKMT1B,KCRU,Mia-CK,mitochondrial,U-MtCK,UMTCK

Product Information

Calculated MW	47 kDa
Observed MW	Refer to figures
Buffer	PBS with 0.05% NaN3 and 40% Glycerol,pH7.4
Purify	Antigen affinity purification
Dilution	WB 1:500-1:2000, IHC 1:40-1:200, ELISA 1:5000-1:10000

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.