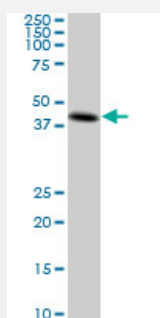


CKMT1B monoclonal antibody (M04), clone 2C8

Catalog # H00001159-M04

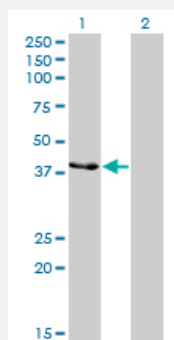
Size 100 ug

Applications



Western Blot (Cell lysate)

CKMT1B monoclonal antibody (M04), clone 2C8. Western Blot analysis of CKMT1B expression in A-431 (Cat # L015V1).

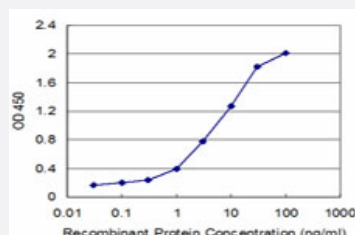


Western Blot (Transfected lysate)

Western Blot analysis of CKMT1B expression in transfected 293T cell line by CKMT1B monoclonal antibody (M04), clone 2C8.

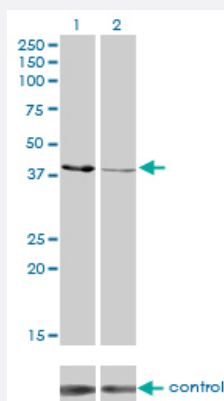
Lane 1: CKMT1B transfected lysate(47 KDa).

Lane 2: Non-transfected lysate.



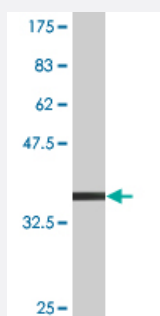
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CKMT1B is approximately 0.1ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of CKMT1B over-expressed 293 cell line, cotransfected with CKMT1B Validated Chimera RNAi (Cat # H00001159-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with CKMT1B monoclonal antibody (M04), clone 2C8 (Cat # H00001159-M04). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (35.75 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CKMT1B.
Immunogen	CKMT1B (NP_066270, 327 a.a. ~ 417 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	GVHIKLPLLSKDSRFPKILENLRQLQKRGTTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVNYLI DCERRLERGQDIRIPTPVIHTKH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93); Rat (92)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.75 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

CKMT1B monoclonal antibody (M04), clone 2C8. Western Blot analysis of CKMT1B expression in A-431 (Cat # L015V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of CKMT1B expression in transfected 293T cell line by CKMT1B monoclonal antibody (M04), clone 2C8.

Lane 1: CKMT1B transfected lysate(47 KDa).

Lane 2: Non-transfected lysate.

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- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CKMT1B is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of CKMT1B over-expressed 293 cell line, cotransfected with CKMT1B Validated Chimera RNAi (Cat # H00001159-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with CKMT1B monoclonal antibody (M04), clone 2C8 (Cat # H00001159-M04). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — CKMT1B

Entrez GeneID	1159
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GeneBank Accession#	NM_020990
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Protein Accession#	NP_066270
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Gene Name	CKMT1B
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Gene Alias	CKMT, CKMT1, UMTCK
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Gene Description	creatine kinase, mitochondrial 1B
Omim ID	123290
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000066275 acidic-type mitochondrial creatine kinase creatine kinase, mitochondria l 1 (ubiquitous) ubiquitous mitochondrial creatine kinase

Pathway

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)