

## Product datasheet for **TA346920**

### CKMT2 Mouse Monoclonal Antibody [Clone ID: 3F4-G5-H5]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | 3F4-G5-H5  |
| Applications:           | WB   |
| Recommended Dilution:   | WB: 1:1000   |
| Reactivity:             | Rat  |
| Host:                   | Mouse  |
| Isotype:                | IgG2b  |
| Clonality:              | Monoclonal   |
| Immunogen:              | The immunogen for CKMT2 antibody: purified recombinant human CKMT2 protein fragments expressed in E.coli.                    |
| Formulation:            | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50% glycerol |
| Purification:           | Affinity purified  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 47 kDa   |
| Gene Name:              | creatine kinase, mitochondrial 2   |
| Database Link:          | <a href="#">NP_001816</a><br><a href="#">Entrez Gene 688698 Rat</a><br><a href="#">P17540</a>                                |



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**Background:** Mitochondrial creatine kinase (MtCK) 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. Sarcomeric mitochondrial creatine kinase has 80% homology with the coding exons of ubiquitous mitochondrial creatine kinase. This gene contains sequences homologous to several motifs that are shared among some nuclear genes encoding mitochondrial proteins and thus may be essential for the coordinated activation of these genes during mitochondrial biogenesis. Three transcript variants encoding the same protein have been found for this gene.

**Synonyms:** SMTCK

**Protein Families:** Druggable Genome

**Protein Pathways:** Arginine and proline metabolism, Metabolic pathways