

## Product datasheet for **TA505413S**

### **CMPK1 Mouse Monoclonal Antibody [Clone ID: OTI1A9]**

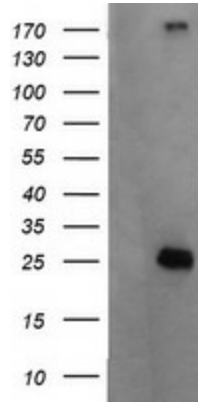
#### **Product data:**

|                                |   |
|--------------------------------|---|
| <b>Product Type:</b>           | Primary Antibodies  |
| <b>Clone Name:</b>             | OTI1A9  |
| <b>Applications:</b>           | IF, IHC, WB   |
| <b>Recommended Dilution:</b>   | WB 1:2000, IHC 1:150, IF 1:100  |
| <b>Reactivity:</b>             | Human, Mouse, Rat   |
| <b>Host:</b>                   | Mouse   |
| <b>Isotype:</b>                | IgG2a   |
| <b>Clonality:</b>              | Monoclonal  |
| <b>Immunogen:</b>              | Full length human recombinant protein of human CMPK1(NP_057392) produced in HEK293T cell.   |
| <b>Formulation:</b>            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| <b>Concentration:</b>          | 1 mg/ml   |
| <b>Purification:</b>           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |
| <b>Conjugation:</b>            | Unconjugated  |
| <b>Storage:</b>                | Store at -20°C as received.   |
| <b>Stability:</b>              | Stable for 12 months from date of receipt.  |
| <b>Predicted Protein Size:</b> | 25.7 kDa  |
| <b>Gene Name:</b>              | cytidine/uridine monophosphate kinase 1   |
| <b>Database Link:</b>          | <a href="#">NP_057392</a><br><a href="#">Entrez Gene 66588 Mouse</a> <a href="#">Entrez Gene 298410 Rat</a> <a href="#">Entrez Gene 51727 Human</a><br><a href="#">P30085</a>   |
| <b>Background:</b>             | Uridine monophosphate (UMP)/cytidine monophosphate (CMP) kinase (EC 2.7.4.4) catalyzes the phosphoryl transfer from ATP to UMP, CMP, and deoxy-CMP (dCMP), resulting in the formation of ADP and the corresponding nucleoside diphosphate. These nucleoside diphosphates are required for cellular nucleic acid synthesis (Liou et al., 2002 [PubMed 11912132]). [supplied by OMIM] |

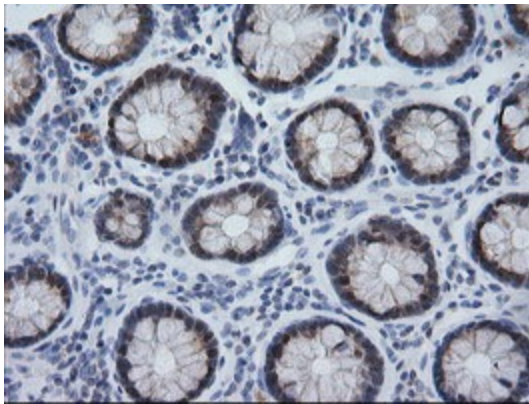


[View online »](#)

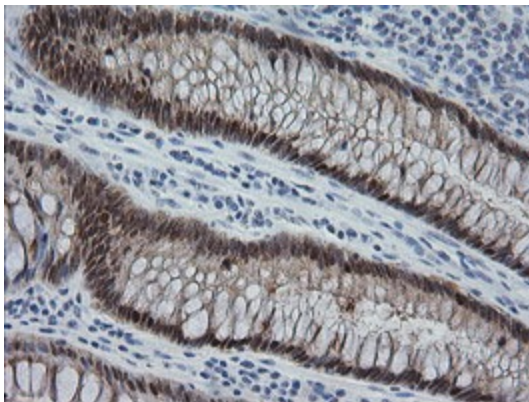
**Synonyms:** CK; CMK; CMPK; UMK; UMP-CMPK; UMPK  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Metabolic pathways, Pyrimidine metabolism

**Product images:**


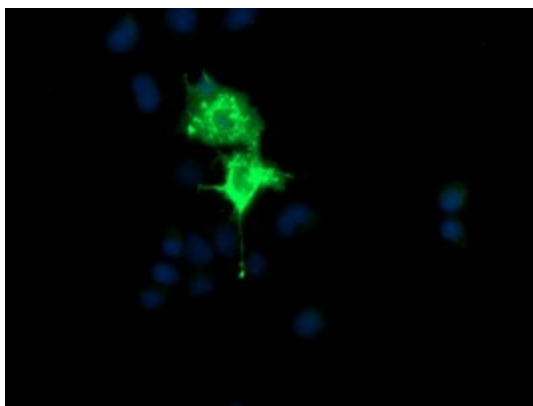
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CMPK1 ([RC204856], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CMPK1. Positive lysates [LY402539] (100ug) and [LC402539] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-CMPK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA505413])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-CMPK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA505413])



Anti-CMPK1 mouse monoclonal antibody ([TA505413]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CMPK1 ([RC204856]).