

**Mouse Anti-CKAP4/CLIMP-63 [MD352]: MC0237, MC0237RTU7**

**Intended Use:** For Research Use Only

**Description:** CKAP4 (cytoskeleton-associated protein 4), also known as CLIMP-63, p63 or ERGIC-63, is a 602 amino acid single-pass type II transmembrane protein that links the rough endoplasmic reticulum to the cytoskeleton. Considered a novel protein in maintaining endoplasmic reticulum morphology, CKAP4 anchors the endoplasmic reticulum to microtubules which is required for maintaining ER spatial distribution during interphase of the cell cycle. CKAP4 can be reversibly palmitoylated and phosphorylated and is a major substrate of the palmitoyl acyltransferase, ZDHHC2. It is suggested that CKAP4 binds with high affinity to an inhibitor of cell proliferation, antiproliferative factor (APF), and blocks its activity on bladder epithelial cells. Two isoforms of CKAP4 exist due to alternative splicing.

**Specifications**

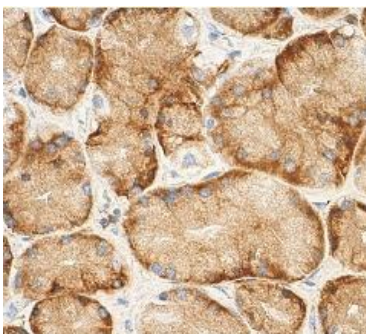
Clone: MD352  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, mouse, rat  
 Immunogen: Peptide aa 513-602 C-terminus human CKAP4 protein  
 Localization: Cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, IF, IP, WB  
 Package:

Description	Catalog No.	Size
CKAP4/CLIMP-63 [MD352] Concentrated	MC0237	1 ml
CKAP4/CLIMP-63 [MD352] Prediluted	MC0237RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Breast, kidney, osteosarcoma, Ewing sarcoma  
 Concentrated Dilution: 25-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human lower stomach stained with anti-CKAP4 using DAB

**References:**

1. Palmitoylation of cytoskeleton associated protein 4 by DHHC2 regulates antiproliferative factor-mediated signaling. Planey, SL., et al. Mol Biol Cell. 20: 1454-63, 2009.
2. A new, unexpected action of olomoucine, a CDK inhibitor, on normal human cells: up-regulation of CLIMP-63, a cytoskeleton-linking membrane protein. Wesierska-Gadek, J., et al. J Cell Biochem. 102: 1405-19, 2007.
3. CKAP4/p63 is a receptor for the frizzled-8 protein-related antiproliferative factor from interstitial cystitis patients. Conrads, TP., et al. J Biol Chem. 281: 37836-43, 2006.