

**Product Name: KO-Validated COMMD1 Mouse Monoclonal Antibody****Catalog #: KVA00072**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Mouse                                                                       |
| <b>Application</b>  | WB,FCM,ICC                                                                  |
| <b>Reactivity</b>   | Human,M                                                                     |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Mouse IgG2a                                                                 |
| <b>Clonality</b>    | Mouse mAb                                                                   |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 21.2kDa                                |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | COMMD1                                                                                                                                                                                                                                                                    |
| <b>Alternative Names</b> | COMMD1; Copper Metabolism Domain Containing 1; MURR1; C2orf5; Copper Metabolism (Murr1) Domain Containing 1; COMM Domain-Containing Protein 1; Copper Metabolism Gene MURR1; Protein Murr1; MGC27155; Chromosome 2 Open Reading Frame 5 (MURR1); COMM Domain Containing 1 |
| <b>Gene ID</b>           | 150684.0                                                                                                                                                                                                                                                                  |
| <b>SwissProt ID</b>      | Q8N668                                                                                                                                                                                                                                                                    |
| <b>Immunogen</b>         | Recombinant protein of human COMMD1                                                                                                                                                                                                                                       |

**Background**

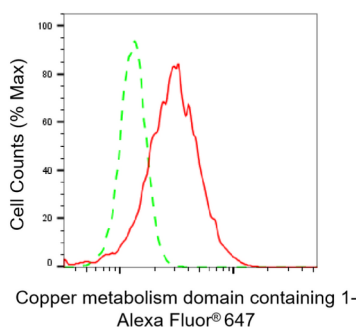
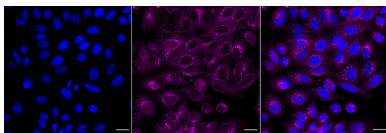
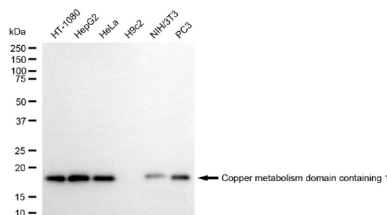
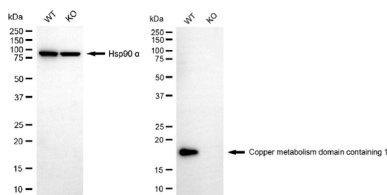
Enables several functions, including phosphatidylinositol-3,4-bisphosphate binding activity; phospholipid binding activity; and

protein homodimerization activity. Involved in several processes, including Golgi to plasma membrane transport; negative regulation of protein localization to cell surface; and regulation of protein metabolic process. Acts upstream of or within negative regulation of NF-kappaB transcription factor activity. Located in cytosol; endosome; and nucleoplasm. Part of Cul2-RING ubiquitin ligase complex. [provided by Alliance of Genome Resources, Jul 2025]

## Research Area

Epigenetics and Nuclear Signaling,Signal Transduction,Metabolism

## Image Data



Western blotting analysis using copper metabolism domain containing 1 antibody (KVA00072). Copper metabolism domain containing 1 expression in wild-type (WT) and copper metabolism domain containing 1 (COMMD1) knockout (KO) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with copper metabolism domain containing 1 antibody (KVA00072, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

Western blotting analysis using copper metabolism domain containing 1 antibody (KVA00072). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with copper metabolism domain containing 1 antibody (KVA00072, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

Immunocytochemical staining of HepG2 cells with Copper metabolism domain containing 1 antibody (KVA00072, 1:1,000). Nuclei were stained blue with DAPI; Copper metabolism domain containing 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain: Medium. Scale bar, 20 µm.

Flow cytometric analysis of Copper metabolism domain containing 1 expression in HepG2 cells using Copper metabolism domain containing 1 antibody (KVA00072, 1:2,000). Green, isotype control; red, Copper metabolism domain containing 1.