

# COMMD1 Monoclonal antibody

Catalog Number: 67016-1-Ig

## Basic Information

<b>Catalog Number:</b> 67016-1-Ig	<b>GenBank Accession Number:</b> BC022046	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 150684	<b>CloneNo.:</b> 3B10E10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8N668	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> copper metabolism (Murr1) domain containing 1	
<b>Immunogen Catalog Number:</b> AG28596	<b>Calculated MW:</b> 190 aa, 21 kDa <b>Observed MW:</b> 20 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IHC, WB, ELISA

**Species Specificity:**  
Human, Mouse, Rat, Pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HT-29 cells, A549 cells, HeLa cells, HEK-293 cells, HepG2 cells, HSC-T6 cells, pig brain tissue, rat brain tissue, mouse brain tissue

**IHC :** human breast cancer tissue,

**IF/ICC :** HepG2 cells,

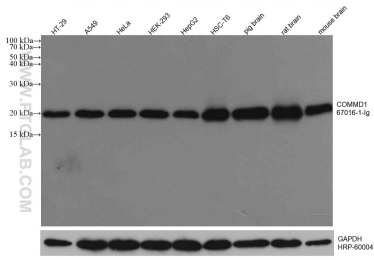
## Background Information

COMMD1 (COMM domain-containing protein 1), also named MURR1, is implicated in copper homeostasis by binding one copper ion per monomer. COMMD1 was reported to accelerate the ubiquitination and degradation of NF-kappa-B subunits, its deficiency exerts enhanced NF-kappa-B mediated cellular response. Ubiquitinated by XIAP (X-linked inhibitor of apoptosis), COMMD1 undergoes proteasomal degradation. SOD1 activity can be downregulated by COMMD1.

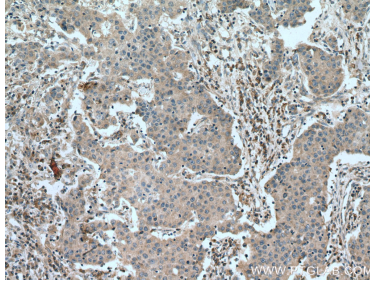
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

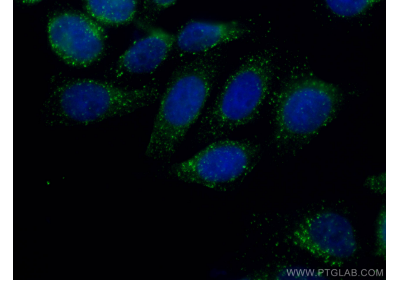
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67016-1-Ig (COMMD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67016-1-Ig (COMMD1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using COMMD1 antibody (67016-1-Ig, Clone: 3B10E10) at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).