

## Product datasheet

# Anti-COMMD1/MURR1 antibody ab102794

3 Images

### Overview

<b>Product name</b>	Anti-COMMD1/MURR1 antibody
<b>Description</b>	Rabbit polyclonal to COMMD1/MURR1
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant full length protein, corresponding to amino acids 1-190 of Human COMMD1/MURR1 (AAH22046.1).
<b>Positive control</b>	Mouse liver, HepG2, and transfected 293T lysates.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: None Constituents: 1X PBS, pH 7.2
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab102794** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 21 kDa.

### Target

<b>Function</b>	Proposed scaffold protein that is implicated in diverse physiological processes and whose function may be in part linked to its ability to regulate ubiquitination of specific cellular proteins.
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Can modulate activity of cullin-RING E3 ubiquitin ligase (CRL) complexes by displacing CAND1; in vitro promotes CRL E3 activity and dissociates CAND1 from CUL1 and CUL2 (PubMed:21778237). Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity (PubMed:15799966, PubMed:17183367, PubMed:20048074). Involved in the regulation of membrane expression and ubiquitination of SLC12A2 (PubMed:23515529). Modulates Na(+) transport in epithelial cells by regulation of apical cell surface expression of amiloride-sensitive sodium channel (ENaC) subunits and by promoting their ubiquitination presumably involving NEDD4L. Promotes the localization of SCNN1D to recycling endosomes (PubMed:14645214, PubMed:20237237, PubMed:21741370). Promotes CFTR cell surface expression through regulation of its ubiquitination (PubMed:21483833). Down-regulates SOD1 activity by interfering with its homodimerization (PubMed:20595380). Plays a role in copper ion homeostasis. Involved in copper-dependent ATP7A trafficking between the trans-Golgi network and vesicles in the cell periphery; the function is proposed to depend on its association within the CCC complex and cooperation with the WASH complex on early endosomes (PubMed:25355947). Can bind one copper ion per monomer (PubMed:17309234). May function to facilitate biliary copper excretion within hepatocytes. Binds to phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) (PubMed:18940794). Involved in the regulation of HIF1A-mediated transcription; competes with ARNT/Hif-1-beta for binding to HIF1A resulting in decreased DNA binding and impaired transcriptional activation by HIF-1 (PubMed:20458141).

#### Tissue specificity

Ubiquitous. Highest expression in the liver, with lower expression in brain, lung, placenta, pancreas, small intestine, heart, skeletal muscle, kidney and placenta. Down-regulated in cancer tissues.

#### Sequence similarities

Contains 1 COMM domain.

#### Post-translational modifications

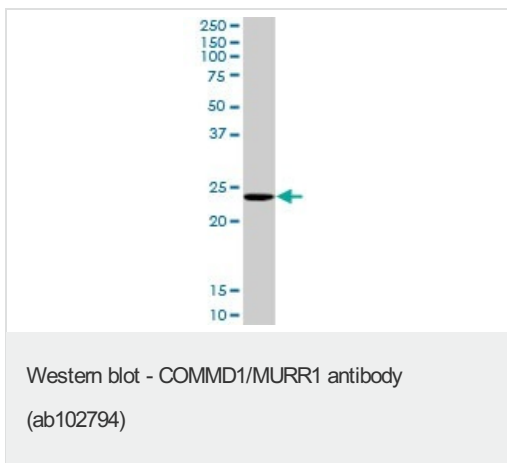
Acetylated by EP300 in a stimuli-specific manner; protecting it from XIAP-mediated proteasomal degradation and required for interaction with REIA in response to stress.

Ubiquitinated; undergoes both 'Lys-63'- and 'Lys-48'-linked polyubiquitination. Ubiquitinated by XIAP, leading to its proteasomal degradation.

#### Cellular localization

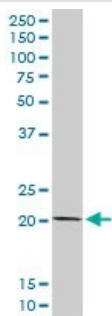
Nucleus. Cytoplasm. Endosome membrane. Cytoplasmic vesicle. Early endosome. Recycling endosome. Shuttles between nucleus and cytosol. Detected in perinuclear foci that may be aggresomes containing misfolded, ubiquitinated proteins.

#### Anti-COMMD1/MURR1 antibody images



Anti-COMMD1/MURR1 antibody (ab102794)  
at 1/500 dilution + Mouse liver tissue lysate at  
50 µg

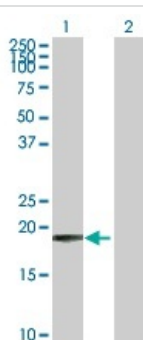
**Predicted band size : 21 kDa**



Western blot - COMMD1/MURR1 antibody  
(ab102794)

Anti-COMMD1/MURR1 antibody (ab102794)  
at 1/500 dilution + HepG2 cell lysate at 50 µg

**Predicted band size : 21 kDa**



Western blot - COMMD1/MURR1 antibody  
(ab102794)

**All lanes :** Anti-COMMD1/MURR1 antibody  
(ab102794) at 1/500 dilution

**Lane 1 :** COMMD1/MURR1 transfected 293T  
cell lysate

**Lane 2 :** Non-transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

**Predicted band size : 21 kDa**

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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