

Product datasheet

Anti-COMMD1/MURR1 antibody ab224727

[2 References](#) [4 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-COMMD1/MURR1 antibody |
| Description | Rabbit polyclonal to COMMD1/MURR1 |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-P, IP, WB |
| Species reactivity | Reacts with: Human |
| Immunogen | Recombinant full length protein corresponding to Human COMMD1/MURR1 aa 1 to the C-terminus. Database link: Q8N668 Run BLAST with Run BLAST with |
| Positive control | WB: A549, Jurkat, MCF7, HeLa and HepG2 whole cell lysate. IP: HepG2 whole cell lysate. IHC-P: Human adrenal gland tissue and liver cancer tissue. |
| General notes | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab224727 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 |
|-------------|-----------|---|
| IHC-P | | 1/20 - 1/200. |
| IP | | 1/200 - 1/2000. |
| WB | | 1/1000 - 1/5000. Detects a band of approximately 21 kDa (predicted molecular weight: 22, 18 kDa). |

Target

Function

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. 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.

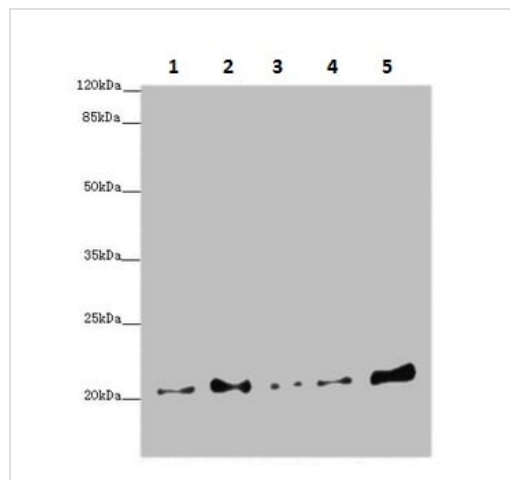
Post-translational modifications

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 aggregates containing misfolded, ubiquitinated proteins.

Images



Western blot - Anti-COMMD1/MURR1 antibody (ab224727)

All lanes : Anti-COMMD1/MURR1 antibody (ab224727) at 1/1000 dilution

Lane 1 : A549 (human lung carcinoma cell line) whole cell lysate

Lane 2 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 3 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

Lane 4 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

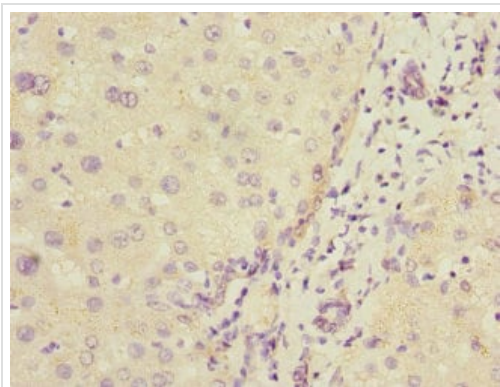
Lane 5 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Secondary

All lanes : Goat polyclonal to Rabbit IgG at 1/10000 dilution

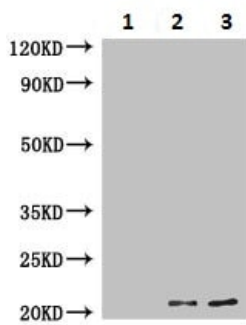
Predicted band size: 22, 18 kDa

Observed band size: 21 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COMMD1/MURR1 antibody (ab224727)

Paraffin-embedded human liver cancer tissue stained for COMMD1/MURR1 with ab224727 at 1/20 dilution in immunohistochemical analysis.



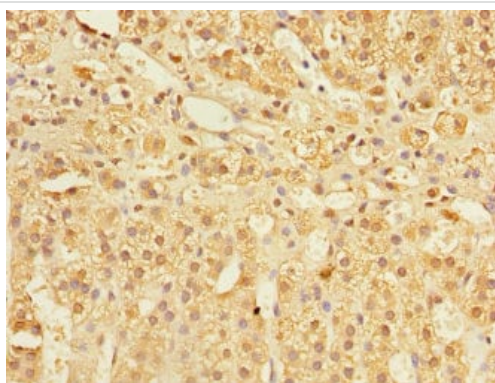
Immunoprecipitation - Anti-COMMD1/MURR1 antibody (ab224727)

COMMD1/MURR1 was immunoprecipitated from 0.5 mg of HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate with ab224727 at 1/200 dilution. Western blot was performed from the immunoprecipitate using ab224727 at 1/1000 dilution. HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution.

Lane 1: Rabbit monoclonal IgG instead of ab224727 in HepG2 whole cell lysate.

Lane 2: ab224727 IP in HepG2 whole cell lysate.

Lane 3: HepG2 whole cell lysate 20 μ g (Input).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COMMD1/MURR1 antibody (ab224727)

Paraffin-embedded human adrenal gland tissue stained for COMMD1/MURR1 with ab224727 at 1/20 dilution in immunohistochemical analysis.

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