



## Rabbit Anti-COMMD1 antibody

SL8034R

<b>Product Name:</b>	COMMD1
<b>Chinese Name:</b>	铜代谢结构域蛋白1抗体
<b>Alias:</b>	C2orf5; COMD1; COMD1_HUMAN; COMM domain-containing protein 1; COMMD1; copper metabolism domain containing 1; MGC27155; MURR1; Protein Murr1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	21kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human COMMD1/MURR1:95-190/190
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity. Down-regulates SOD1 activity by interfering with its homodimerization. Plays a role in copper ion homeostasis. Can bind one copper ion per monomer. May function to facilitate biliary copper excretion within hepatocytes.

**Tissue specificity:** Ubiquitous. Highest expression in the liver, with lower expression in brain, lung, placenta, pancreas, small intestine, heart, skeletal muscle, kidney and placenta.

**Function:**

Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity. Down-regulates SOD1 activity by interfering with its homodimerization. Plays a role in copper ion homeostasis. Can bind one copper ion per monomer. May function to facilitate biliary copper excretion within hepatocytes.

**Subunit:**

Monomer and homodimer. Interacts (via COMM domain) with COMMD2, COMMD3, COMMD4, COMMD5, COMMD6, COMMD7, COMMD8 and COMMD10 (via COMM domain). Identified in a complex with an E3 ubiquitin ligase complex composed of TCEB1/elongin C, CUL2, SOCS1 and RBX1. Interacts directly with SOCS1 and CUL2. Interacts directly the N-terminal region of ATP7B. Interacts with CCS, CDKN2A, RELA and NFKBIB. Identified in a complex with NF-kappa-B. Interacts with CLU.

**Tissue Specificity:**

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

**Post-translational modifications:**

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

**Similarity:**

Contains 1 COMM domain.

**SWISS:**

Q8N668

**Gene ID:**

150684

**Database links:**

[Entrez Gene: 150684](#)Human

[Entrez Gene: 17846](#)Mouse

[Omir: 607238](#)Human

[SwissProt: Q8N668](#)Human

[SwissProt: Q8K4M5](#)Mouse

[Unigene: 468702](#)Human

[Unigene: 259903](#)Mouse

[Unigene: 451238](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

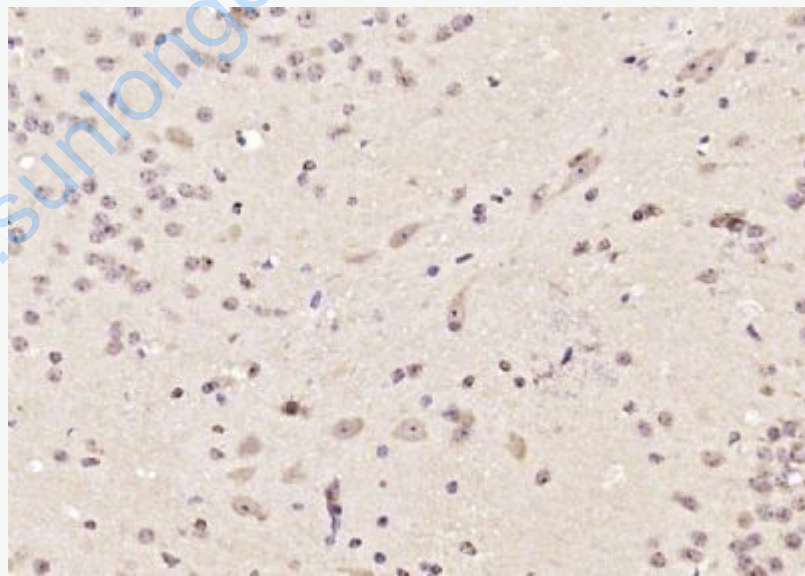
COMMD蛋白家族中最典型的成员.它是一个多效性因子,参与许多生理活动,包括铜代谢、钠运输、对核因子 $\kappa$ B(NF- $\kappa$ B)及低氧诱导因子1(HIF-1)的调节等, COMMD广泛存在于多Cell

biology中,最典型的特征是它们的羧基端存在一个高度保守而独特的结构—COMMD结构域,为蛋白质间的相互作用提供了关键界面.

目前研究COMMD蛋白家族有10个成员,即COMMD1~10.COMMD1是COMMD蛋白家族中最先被证实且研究最为深入的蛋白质,在不同物种中广泛表达,在人类的不同组织表达存在差异.

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**Picture:**



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COMMD1) Polyclonal Antibody,

	Unconjugated (SL8034R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.
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