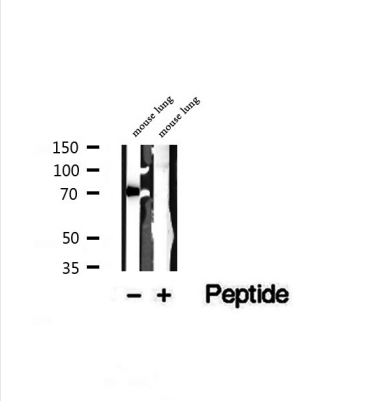
CCDC22 Antibody – Rabbit Polyclonal

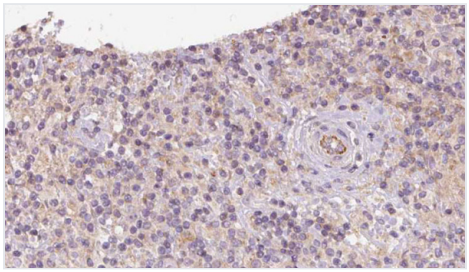
PRODUCT OVERVIEW

Product Name	CCDC22, Polyclonal Antibody
Full Product Name	CCDC22 Antibody
Product Gene Name	anti-CCDC22 antibody
Product Synonym Names	AI481216; CCD22_HUMAN; Ccdc22; chromosome X open reading frame 37; Coiled-coil domain-containing protein 22; CXorf37; DXImx40e; JM1; RGD1560910; Sfc22
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	CCDC22 antibody detects endogenous levels of CCDC22.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	CCDC22 peptide (MBS9620956) is used for blocking the activity of CCDC22 antibody (MBS9603479)
Molecular Weight	Observed: 71 kDa Predicted: 71 kDa
3D Structure	ModBase 3D Structure for O60826
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human CCDC22.
Subcellular Location	Endosome
Tissue Specificity	Widely expressed in adult tissues and in fetal liver and brain, with highest levels in prostate and lowest in skeletal muscle.
Predicted Cross Reactivity	**Pig, Horse, Sheep, Rabbit, Dog, Xenopus**
Similarity	Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (83%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CCDC22 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CCDC22 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-CCDC22 antibody	Function: Involved in regulation of NF-kappa-B signaling. Promotes ubiquitination of I-kappa-B-kinase subunit IKBKB and its subsequent proteasomal degradation leading to NF-kappa-B activation; the function may involve association with COMMD8 and a CUL1-dependent E3 ubiquitin ligase complex. May down-regulate NF-kappa-B activity via association with COMMD1 and involving a CUL2-dependent E3 ubiquitin ligase complex. Regulates the cellular localization of COMM domain-containing proteins, such as COMMD1 and COMMD10 (PubMed:23563313). 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). Subunit Structure: Interacts with CPNE1 and CPNE4 (By similarity). Interacts with COMMD1, COMMD2 COMMD3, COMMD4, COMMD5, COMMD6, COMMD7, COMMD8, COMMD9, COMMD10. Interacts with CUL1, CUL2, CUL3, SKP1, BTRC (PubMed:23563313). Interacts with CCDC93 and C16orf62; proposed to be a component of the CCC (COMMD/CCDC22/CCDC93) complex which contains at least COMMD1 (and possibly other COMM domain-containing proteins), CCDC22, CCDC93 and C16orf62; in the complex interacts directly with CCDC93 (PubMed:25355947). Similarity: Belongs to the CCDC22 family.
Other Notes	Small volumes of anti-CCDC22 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CCDC22 purchase	MBS9603479 is an antibody targeting CCDC22. Also known as CCDC22 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CCDC22 antibody
Western blot analysis of extracts of mouse lung tissue, using CCDC22 antibody.



Immunohistochemistry (IHC) of anti-CCDC22 antibody
MBS9603479 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCDC22. It may not necessarily be applicable to this product.

NCBI GI #	7661844
NCBI GeneID	28952
NCBI Accession #	NP_054727.1
UniProt Primary Accession #	O60826
UniProt Secondary Accession #	A8K7G1
UniProt Related Accession #	O60826
GenBank Nucleotide #	NM_014008.4
NCBI Official Full Name	coiled-coil domain-containing protein 22
NCBI Official Synonym Full Names	coiled-coil domain containing 22
NCBI Official Symbol	CCDC22
NCBI Official Synonym Symbols	JM1; RTSC2; CXorf37

UniProt Protein Name	Coiled-coil domain-containing protein 22
Protein Family	Coiled-coil domain-containing protein
UniProt Gene Name	CCDC22
UniProt Synonym Gene Names	CXorf37
NCBI Protein Information	coiled-coil domain-containing protein 22
NCBI Summary for CCDC22	This gene encodes a protein containing a coiled-coil domain. The encoded protein functions in the regulation of NF-kB (nuclear factor kappa-light-chain-enhancer of activated B cells) by interacting with COMMD (copper metabolism Murr1 domain-containing) proteins. The mouse orthologous protein has been shown to bind copines, which are calcium-dependent, membrane-binding proteins that may function in calcium signaling. This human gene has been identified as a novel candidate gene for syndromic X-linked intellectual disability. [provided by RefSeq, Aug 2013]
UniProt Comments for CCDC22	Involved in regulation of NF-kappa-B signaling. Promotes ubiquitination of I-kappa-B-kinase subunit IKBKB and its subsequent proteasomal degradation leading to NF-kappa-B activation; the function may involve association with COMMD8 and a CUL1-dependent E3 ubiquitin ligase complex. May down-regulate NF-kappa-B activity via association with COMMD1 and involving a CUL2-dependent E3 ubiquitin ligase complex. Regulates the cellular localization of COMM domain-containing proteins, such as COMMD1 and COMMD10 (PubMed:23563313). 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).
Research Articles on CCDC22	**1.** SNPs within the CCDC22 gene are associated with increased susceptibility to endometriosis in Brazilian women.
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