

Goat Anti-CCM2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1210a**Specification**

Goat Anti-CCM2 Antibody - Product Information

Application	WB, E
Primary Accession	O9BSQ5
Other Accession	NP_113631 , 83605 , 216527 (mouse)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	48837

Goat Anti-CCM2 Antibody - Additional Information**Gene ID** 83605**Other Names**

Malcavernin, Cerebral cavernous malformations 2 protein, CCM2, C7orf22

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-CCM2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-CCM2 Antibody - Protein Information**Name** CCM2**Synonyms** C7orf22**Function**

Component of the CCM signaling pathway which is a crucial regulator of heart and vessel formation and integrity. May act through the stabilization of endothelial cell junctions (By similarity). May function as a scaffold protein for MAP2K3-MAP3K3 signaling. Seems to play a major role in the modulation of MAP3K3-dependent p38 activation induced by hyperosmotic shock (By similarity).

Cellular Location

Cytoplasm.

Goat Anti-CCM2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-CCM2 Antibody - Images

AF1210a (0.03 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-CCM2 Antibody - Background

This gene encodes a scaffold protein that functions in the stress-activated p38 Mitogen-activated protein kinase (MAPK) signaling cascade. The protein interacts with SMAD specific E3 ubiquitin protein ligase 1 (also known as SMURF1) via a phosphotyrosine binding domain to promote RhoA degradation. The protein is required for normal cytoskeletal structure, cell-cell interactions, and lumen formation in endothelial cells. Mutations in this gene result in cerebral cavernous malformations. Multiple transcript variants encoding different isoforms have been found for this gene.

Goat Anti-CCM2 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

Cerebral cavernous malformations proteins inhibit Rho kinase to stabilize vascular integrity. Stockton RA, et al. J Exp Med, 2010 Apr 12. PMID 20308363.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

CCM2 mediates death signaling by the TrkA receptor tyrosine kinase. Harel L, et al. Neuron, 2009 Sep 10. PMID 19755102.