

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

---

**Goat Anti-CCM2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9BSQ5</a>
Other Accession	<a href="#">NP_113631</a> , <a href="#">83605</a> , <a href="#">216527 (mouse)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog, Cow
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

**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 Thiazolinedinedione-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.