Datasheet for ABIN1589765

CCM2 Protein (His tag)

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Overview

Quantity:	20 µg
Target:	CCM2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCM2 protein is labelled with His tag.

Product Details

Purpose:	CCM-2
Sequence:	MGSSHHHHHH SSGLVPRGSH MEEEGKKGKK PGIVSPFKRV FLKGEKSRDK KAHEKVTERR PLHTVVLSLP ERVEPDRLLS DYIEKEVKYL GQLTSIPGYL NPSSRTEILH FIDNAKRAHQ LPGHLTQEHD AVLSLSAYNV KLAWRDGEDI ILRVPIHDIA AVSYVRDDAA HLVVLKTAQD PGISPSQSLC AESSRGLSAG SLSESAVGPV EACCLVILAA ESKVAAEELC CLLGQVFQVV YTESTIDFLD RAIFDGASTP THHLSLHSDD SSTKVDIKET YEVEASTFCF PESVDVGGAS PHSKTISESE LSASATELLQ DYMLTLRTKL SSQEIQQFAA LLHEYRNGAS IHEFCINLRQ LYGDSRKFLL LGLRPFIPEK DSQHFENFLE TIGVKDGRGI ITDSFGRHRR ALSTTSSSTT NGNRATGSSD DRSAPSEGDE WDRMISDISS DIEALGCSMD QDSA
Specificity:	Chromosomal location:7p13
Characteristics:	Length (aa):464
Purity:	> 95 % by SDS-PAGE

Target Details

Target:	CCM2
Alternative Name:	CCM-2 (CCM2 Products)
Background:	Cerebral cavernous malformations (CCMs) are sporadically acquired or inherited vascular lesions of the central nervous system consisting of clusters of dilated thin-walled blood vessels that predispose individuals to seizures and stroke. Familial CCM is caused by mutations in KRIT1 (CCM1) or in malcavernin (CCM2). The roles of the CCM proteins in the pathogenesis of the disorder remain largely unknown. It was shown that the CCM1 gene product, KRIT1, interacts with the CCM2 gene product, malcavernin. Analogous to the established interactions of CCM1 and beta1 integrin with ICAP1, the CCM1/CCM2 association is dependent upon the phosphotyrosine binding (PTB) domain of CCM2. A familial CCM2 missense mutation abrogates the CCM1/CCM2 interaction, suggesting that loss of this interaction may be critical in CCM pathogenesis. CCM2 and ICAP1 bound to CCM1 via their respective PTB domains differentially influence the subcellular localization of CCM1. The data indicate that the genetic heterogeneity observed in familial CCM may reflect mutation of different molecular members of a coordinated signaling complex. The CCM-2 is fused to a N-terminal His-tag (6x His). Synonyms: CCM-2, malcavernin, cerebral cavernous malformation 2, OSM, C7orf22, PP10187
Molecular Weight:	51.0 kDa
Gene ID:	83605
NCBI Accession:	NM_001029835, NP_001025006
UniProt:	Q9BSQ5
Pathways:	Cell-Cell Junction Organization

Application Details

Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS
Storage:	4 °C,-20 °C
Storage Comment:	Store human CCM2 at -20°C. It can be stored at 4°C for a limited period of time of 7 days.