

Recombinant Human KRIT1 protein ab113196

1 图像

描述	
产品名称	重组人KRIT1蛋白
纯度	> 90 % SDS-PAGE. Purity is >90%, by SDS-PAGE and silver stain.
表达系统	Escherichia coli
Accession	<u><b>O00522-2</b></u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	MLLKEAINKPYEKVRIYRMDGSYRSVELKHGNNTTVQQIMEG MRLSQETQ QYFTIWICSENLSQLKPYHKPLQHVRDWPEILAELTNLDPQ RETPQLFL RRDVRLPLEVEKQIEDPLAILILFDEARYNLLKGFYTAPDAK LITLASLL LQIVYGNYESKKHKQGFLNEENLKSIVPVTKLKSKAPHWTNR ILHEYKNL STSEGVSKEMHHLQRMFLQNCWEIPTYGAAFFTQIFTKASP SNHKVIPV YVGVNIKGLHLLNMETKALLISLKYGCFMWQLGDTDTCTCFQIH SMENKMSF IVHTKQAGLVVKLLMKLNGQLMPTERNLSLE
预测分子量	39 kDa including tags
氨基酸	203 to 529
标签	His tag C-Terminus

技术指标	
Our <b>Abpromise guarantee</b> covers the use of <b>ab113196</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	SDS-PAGE
形式	Lyophilized

## 制备和贮存

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### 稳定性和存储

Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

Constituent: 0.18% Sodium chloride

### 复溶

ab113196 is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium containing at least 0.1% Human or BSA to a concentration not lower than 50 µg/ml.

## 常规信息

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### 功能

Negative regulator of angiogenesis. Inhibits endothelial proliferation, apoptosis, migration, lumen formation and sprouting angiogenesis in primary endothelial cells. Promotes AKT phosphorylation in a NOTCH-dependent and independent manner, and inhibits EKR1/2 phosphorylation indirectly through activation of the DELTA-NOTCH cascade. Acts in concert with CDH5 to establish and maintain correct endothelial cell polarity and vascular lumen and these effects are mediated by recruitment and activation of the Par polarity complex and RAP1B. Required for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction. Plays an important role in the maintenance of the intracellular reactive oxygen species (ROS) homeostasis to prevent oxidative cellular damage. Regulates the homeostasis of intracellular ROS through an antioxidant pathway involving FOXO1 and SOD2. Facilitates the down-regulation of cyclin D1 levels required for cell transition from proliferative growth to quiescence by preventing the accumulation of intracellular ROS through the modulation of FOXO1 and SOD2 levels.

### 组织特异性

Low levels in brain. Very weak expression found in heart and muscle.

### 疾病相关

Defects in KRIT1 are the cause of cerebral cavernous malformations type 1 (CCM1) [MIM:116860]. Cerebral cavernous malformations (CCMs) are congenital vascular anomalies of the central nervous system that can result in hemorrhagic stroke, seizures, recurrent headaches, and focal neurologic deficits. CCMs have an incidence of 0.1%-0.5% in the general population and usually present clinically during the 3rd to 5th decade of life. The lesions are characterized by grossly enlarged blood vessels consisting of a single layer of endothelium and without any intervening neural tissue, ranging in diameter from a few millimeters to several centimeters.

### 序列相似性

Contains 4 ANK repeats.

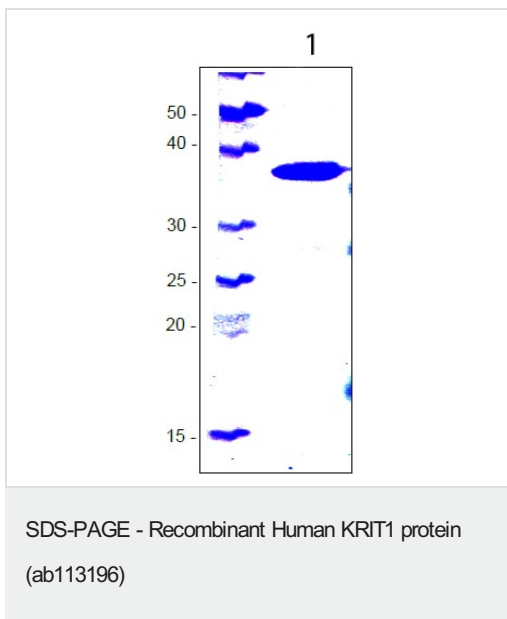
Contains 1 FERM domain.

### 细胞定位

Membrane. Cell junction. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions.

## 图片

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SDS-PAGE analysis of recombinant human KRIT1 protein fragment (ab113196). Sample was loaded in 15% SDS-polyarylamide gel under reducing conditions and stained with Coomassie blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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