

KRIT1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant KRIT1.****Catalog # AT2652a****Specification**

KRIT1 Antibody (monoclonal) (M01) - Product Information

Application	E
Primary Accession	O00522
Other Accession	NM_004912
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a lambda
Calculated MW	84348

KRIT1 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 889**Other Names**

Krev interaction trapped protein 1, Krev interaction trapped 1, Cerebral cavernous malformations 1 protein, KRIT1, CCM1

Target/Specificity

KRIT1 (NP_004903, 637 a.a. ~ 736 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

KRIT1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

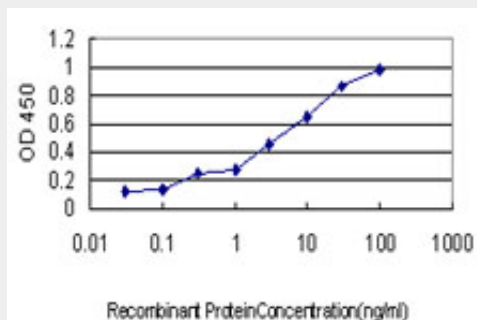
KRIT1 Antibody (monoclonal) (M01) - Protocols

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](#)

KRIT1 Antibody (monoclonal) (M01) - Images



Detection limit for recombinant GST tagged KRIT1 is approximately 0.03ng/ml as a capture antibody.

KRIT1 Antibody (monoclonal) (M01) - Background

This gene encodes a protein containing four ankyrin repeats, a band 4.1/ezrin/radixin/moesin (FERM) domain, and multiple NPXY sequences. The encoded protein is localized in the nucleus and cytoplasm. It binds to integrin cytoplasmic domain-associated protein-1 alpha (ICAP1alpha), and plays a critical role in beta1-integrin-mediated cell proliferation. It associates with junction proteins and RAS-related protein 1A (Rap1A), which requires the encoded protein for maintaining the integrity of endothelial junctions. It is also a microtubule-associated protein and may play a role in microtubule targeting. Mutations in this gene result in cerebral cavernous malformations. Multiple alternatively spliced transcript variants have been found for this gene.

KRIT1 Antibody (monoclonal) (M01) - References

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. Novel KRIT1/CCM1 mutation in a patient with retinal cavernous hemangioma and cerebral cavernous malformation. Reddy S, et al. Graefes Arch Clin Exp Ophthalmol, 2010 Sep. PMID 20306072. Familial versus sporadic cavernous malformations: differences in developmental venous anomaly association and lesion phenotype. Petersen TA, et al. AJNR Am J Neuroradiol, 2010 Feb. PMID 19833796. C329X in KRIT1 is a founder mutation among CCM patients in Sardinia. Cau M, et al. Eur J Med Genet, 2009 Sep-Oct. PMID 19454328.