

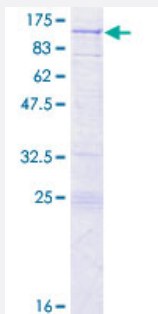
Full-Length

KRIT1 (Human) Recombinant Protein (P01)

Catalog # H00000889-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human KRIT1 full-length ORF (NP_004903.2, 1 a.a. - 736 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGNPENIEDAYVAVIRPKNTASLNSREYRAKSYEILLHEVPIEGQKKKRKKVLLLETKLQGNSEITQGI
LDYVVETTKPISPANQGIRGKRVVLMKKFPLDGEKMGREASLFIVPSVVKDNTKYTPGCPIFYCL
QDIMRVCSESSTHFATLTARMLIALDKWLDERHAQSHFIPALFRPSPLERIKTNVINPAYATESGQT
ENSLHMGYSALEIKSKMLALEKADTCYNPLFGSDLQYTNRVDKVINPYFGLGAPDYSKIQPKQE
KWQRSMSSVTEDKERQWVDDFPLHRSACEGDSELLSRLLSERFSVNQLDSDHWAPIHYACWY
GKVEATRILLEKGGKCNPNLLNGQLSSPLHFAAGGGHAEIVQILLNHPETDRHITDQQGRSPLNICEE
NKQNNWEEAAKLLKEANKPYEKVRIYRMDGSYRSVELKHGNNTTVQQIMEGMRLSQETQQYFTI
WICSENLSLQLKPYHKPLQHVRDWPEILAEELTNLDPQRETPQLFLRRDVRLPLEVEKQIEDPLAILIL
FDEARYNLLKGFYTAPDAKLITLASLLLQVYGNYESKKHKQGFLNEENLKSIVPVTKLKSAPHWT
NRILHEYKNLSTSEGVSKEMHHLQRMFLQNCWEIPTYGAAFFTGGQIFTKASPSNHKVIPVYGVNLIK
GLHLLNMETKALLISLKYGCFMWQLGDTDTCTCFQIHSMENKMSFIVHTKQAGLVVKLLMKLNGQLM
PTERNS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

110.7

Interspecies Antigen Sequence

Mouse (95); Rat (95)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — KRIT1

Entrez GeneID	889
GeneBank Accession#	NM_004912.3
Protein Accession#	NP_004903.2
Gene Name	KRIT1
Gene Alias	CAM, CCM1
Gene Description	KRIT1, ankyrin repeat containing
Omim ID	116860 604214
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

ankyrin repeat-containing protein Krit1|cerebral cavernous malformations 1|krev interaction trapped 1

Disease

- [Hemangioma](#)
- [Tobacco Use Disorder](#)