Recombinant Full Length Human KRIT1 Protein, GST-tagged

Cat. No. KRIT1-5917HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human KRIT1 full-length ORF (NP_004903.2, 1 a.a. - 736 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	736 amino acids
Description	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
Molecular Mass	110.7 kDa
AA Sequence	MGNPENIEDAYVAVIRPKNTASLNSREYRAKSYEILLHEVPIEGQKKKRKKVLLETKL QGNSEITQGILDYVVETTKPISPANQGIRGKRVVLMKKFPLDGEKMGREASLFIVPSV VKDNTKYTYTPGCPIFYCLQDIMRVCSESSTHFATLTARMLIALDKWLDERHAQSHFI

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	PALFRPSPLERIKTNVINPAYATESGQTENSLHMGYSALEIKSKMLALEKADTCIYNPL FGSDLQYTNRVDKVVINPYFGLGAPDYSKIQIPKQEKWQRSMSSVTEDKERQWVDD FPLHRSACEGDSELLSRLLSERFSVNQLDSDHWAPIHYACWYGKVEATRILLEKGKC NPNLLNGQLSSPLHFAAGGGHAEIVQILLNHPETDRHITDQQGRSPLNICEENKQNN WEEAAKLLKEAINKPYEKVRIYRMDGSYRSVELKHGNNTTVQQIMEGMRLSQETQQ YFTIWICSENLSLQLKPYHKPLQHVRDWPEILAELTNLDPQRETPQLFLRRDVRLPLE VEKQIEDPLAILILFDEARYNLLKGFYTAPDAKLITLASLLLQIVYGNYESKKHKQGFLN EENLKSIVPVTKLLKSKAPHWTNRILHEYKNLSTSEGVSKEMHHLQRMFLQNCWEIPT YGAAFFTGQIFTKASPSNHKVIPVYVGVNIKGLHLLNMETKALLISLKYGCFMWQLGD TDTCFQIHSMENKMSFIVHTKQAGLVVKLLMKLNGQLMPTERNS
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	KRIT1 KRIT1, ankyrin repeat containing [Homo sapiens]
Official Symbol	KRIT1
Synonyms	KRIT1; KRIT1, ankyrin repeat containing; CCM1, cerebral cavernous malformations 1; krev interaction trapped protein 1; CAM; krev interaction trapped 1; ankyrin repeat-containing protein Krit1; cerebral cavernous malformations 1 protein; CCM1;

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Gene ID	889
mRNA Refseq	NM_001013406
Protein Refseq	NP_001013424
MIM	604214
UniProt ID	O00522

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