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Product datasheet for TP509634

Klhl22 (NM_145479) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse kelch-like 22 (Klhl22), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209634 protein sequence Red=Cloning site Green=Tags(s) MAEEQDFAQLCRLPTQPSHSHCVNNTYRSTQHSQALLRGLLALRDSGILFDVVLVVEGKHIEAHRILLAA SCDYFRGMFAGGLKEMEQEEVLIHGVSYNAMCQILHFIYTSELELSLSNVQETLVAACQLQIPEIIHFCC DFLMSWVDEENILDVYRLADLFDLNHLTQQLDTYILKNFVAFSRTDKYRQLPLEKVYSLLSSNRLEVSCE TEVYEGALLYHYSLEQVQADQISLNEPPKLLETVRFPLMEAEVLQRLHDKLGPSPLRDTVASALMYHRNE ILQPSLQGPQTELRSDFQCVVGFGGIHSTPSTILSDQAKYLNPLLGEWKHFTASLAPRMSNQGIAVLNNF VYLIGGDNNVQGFRAESRCWRYDPRHNRWFQIQSLQQEHADLCVCVVGKYIYAVAGRDYHNDLSAVERYD PATNSWDYVAPLKKEVYAHAGTTLQGKMYITCGRRGEDYLKETHCYDPGSNTWHTLADGPVRRAWHGMAA LLDKLFVIGGSNNDAGYRRDVHQVACYSCTSRQWSSVCPLPAGHGEPGIAVLDSRIYVLGGRSHNRGSRT GYVHIYDMEKDCWEEGPQLNNSISGLAACVLTLPRSLLHEQPRGTPNRSQADADFASEVMSVSDWEEFDN SSED TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	71.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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RefSeq:	NP_663454
Locus ID:	224023
UniProt ID:	Q99JN2
RefSeq Size:	2633
Cytogenetics:	16 11.01 cM
RefSeq ORF:	1905
Synonyms:	2610318I18Rik; Kelchl
Summary:	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex required for chromosome alignment and localization of PLK1 at kinetochores. The BCR(KLHL22) ubiquitin ligase complex mediates monoubiquitination of PLK1, leading to PLK1 dissociation from phosphoreceptor proteins and subsequent removal from kinetochores, allowing silencing of the spindle assembly checkpoint (SAC) and chromosome segregation. Monoubiquitination of PLK1 does not lead to PLK1 degradation (By similarity). The BCR(KLHL22) ubiquitin ligase complex is also responsible for the amino acid-stimulated 'Lys-48' polyubiquitination and proteasomal degradation of DEPDC5. Through the degradation of DEPDC5, releases the GATOR1 complex-mediated inhibition of the TORC1 pathway. It is therefore an amino acid-dependent activator within the amino acid-sensing branch of the TORC1 pathway, indirectly regulating different cellular processes including cell growth and autophagy (PubMed:29769719).[UniProtKB/Swiss-Prot Function]