KLHL3 Blocking Peptide

PRODUCT OVERVIEW

Product Name	KLHL3, Blocking Peptide
Full Product Name	KLHL3 Peptide
Product Gene Name	KLHL3 blocking peptide
Product Synonym Gene Name	PHA2D
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	KLHL3 peptide (MBS3229499) is used for blocking the activity of KLHL3 antibody (MBS3204532)
Molecular Weight	65kDa
OMIM	605775
Product Categories/Family for KLHL3 blocking peptide	Peptide
Applications Tested/Suitable for KLHL3 blocking peptide	Western Blot (WB)
Related Product Information for KLHL3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-KLHL3 antibody made Target Description: KLHL3 protein contains a poxvirus and zinc finger domain at the N-terminus and six tandem repeats (kelch repeats) at the C-terminus. At the amino acid level, KLHL3 shares 77% similarity with Drosophila kelch and 89% similarity with Mayven (KLHL2), another human kelch homolog. At least three isoforms are produced and may be the result of alternative promoter usage. The KLHL3 maps within the smallest commonly deleted segment in myeloid leukemias characterized by a deletion of 5q; however, no inactivating mutations of KLHL3 could be detected in malignant myeloid disorders with loss of 5q.
Other Notes	Small volumes of KLHL3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KLHL3 purchase	MBS3229499 is a blocking peptide targeting KLHL3. Also known as KLHL3 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLHL3. It may not necessarily be applicable to this product.

NCBI GI #	166235129
NCBI GeneID	26249
NCBI Accession #	NP_059111
UniProt Primary Accession #	Q9UH77
UniProt Related Accession #	Q9UH77
GenBank Nucleotide #	NM_017415
NCBI Official Full Name	kelch-like protein 3 isoform 1
NCBI Official Synonym Full Names	kelch like family member 3

NCBI Official Symbol	KLHL3
NCBI Official Synonym Symbols	PHA2D
UniProt Protein Name	Kelch-like protein 3
Protein Family	Kelch-like protein
UniProt Gene Name	KLHL3
UniProt Synonym Gene Names	KIAA1129
UniProt Entry Name	KLHL3_HUMAN
NCBI Protein Information	kelch-like protein 3
NCBI Summary for KLHL3	This gene is ubiquitously expressed and encodes a full-length protein which has an N-terminal BTB domain followed by a BACK domain and six kelch-like repeats in the C-terminus. These kelch-like repeats promote substrate ubiquitination of bound proteins via interaction of the BTB domain with the CUL3 (cullin 3) component of a cullin-RING E3 ubiquitin ligase (CRL) complex. Muatations in this gene cause pseudohypoaldosteronism type IID (PHA2D); a rare Mendelian syndrome featuring hypertension, hyperkalaemia and metabolic acidosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2012]
Research Articles on KLHL3	**1.** A new recessive mutation in KLHL3 (S553L) was identified in familial hyperkalemia and hypertension. Increased urinary NCC was found in affected members (heterozygous) with dominant KLHL3 Q309R, and in affected members (homozygous) of the recessive form.
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