MKRN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MKRN1, Polyclonal Antibody
Full Product Name	MKRN1, ID (MKRN1, RNF61, E3 ubiquitin-protein ligase makorin-1, RING finger protein 61) (MaxLight 490)
Product Gene Name	anti-MKRN1 antibody
Product Synonym Names	MKRN1; RNF61; E3 ubiquitin-protein ligase makorin-1; RING finger protein 61
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	35,224 Da
OMIM	607754
3D Structure	ModBase 3D Structure for Q9UHC7
Immunogen	MKRN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-213 amino acids from the Central region of human MKRN1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MKRN1 antibody	Antibodies; Ubiquitin Ligases
Applications Tested/Suitable for anti-MKRN1 antibody	Western Blot (WB), FLISA
Application Notes for anti-MKRN1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MKRN1 antibody	The Makorin ring finger protein-1 gene (MKRN1) is a highly transcribed, intron-containing source for a family of intronless mammalian genes encoding a novel class of zinc finger proteins. Phylogenetic analyses indicate that the MKRN1 gene is the ancestral founder of this gene family (Gray et al., 2000 [PubMed 10843807]).
Product References and Citations for anti-MKRN1 antibody	Rose, J. Phd, et al. Mol. Med. (2010). In press: Ko, A., et al. J. Virol. 84(1):426-436(2010). Lee, E.W., et al. EMBO J. 28(14):2100-2113(2009). Shimada, H., et al. BMC Cancer 9, 232 (2009): Omwancha, J., et al. Endocrine 29(2):363-373(2006).
Other Notes	Small volumes of anti-MKRN1 antibody 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 MKRN1 purchase	MBS6321004 is an antibody targeting MKRN1. Also known as MKRN1, ID (MKRN1, RNF61, E3 ubiquitin-protein ligase makorin-1, RING finger protein 61) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MKRN1. It may not necessarily be applicable to this product.

NCBI GI #	223468620
NCBI GeneID	23608
NCBI Accession #	NP_038474.2
NCBI Related Accession #	NP_001138597.1
UniProt Primary Accession #	Q9UHC7
UniProt Secondary Accession #	Q256Y7; Q59G11; Q6GSF1; Q9H0G0; Q9UEZ7; Q9UHW2; A4D1T7; B3KXB4
UniProt Related Accession #	Q9UHC7
GenBank Nucleotide #	NM_013446.3
NCBI Official Full Name	E3 ubiquitin-protein ligase makorin-1 isoform 1
NCBI Official Synonym Full Names	makorin ring finger protein 1
NCBI Official Symbol	MKRN1
NCBI Official Synonym Symbols	RNF61
UniProt Protein Name	E3 ubiquitin-protein ligase makorin-1
UniProt Synonym Protein Names	RING finger protein 61
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	MKRN1
UniProt Synonym Gene Names	RNF61
UniProt Entry Name	MKRN1_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase makorin-1
NCBI Summary for MKRN1	This gene encodes a protein that belongs to a novel class of zinc finger proteins. The encoded protein functions as a transcriptional co-regulator, and as an E3 ubiquitin ligase that promotes the ubiquitination and proteasomal degradation of target proteins. The protein encoded by this gene is thought to regulate RNA polymerase II-catalyzed transcription. Substrates for this protein's E3 ubiquitin ligase activity include the capsid protein of the West Nile virus and the catalytic subunit of the telomerase ribonucleoprotein. This protein controls cell cycle arrest and apoptosis by regulating p21, a cell cycle regulator, and the tumor suppressor protein p53. Pseudogenes of this gene are present on chromosomes 1, 3, 9, 12 and 20, and on the X chromosome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]
UniProt Comments for MKRN1	MKRN1: E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. These substrates include FILIP1, p53/TP53, CDKN1A and TERT. Keeps cells alive by suppressing p53/TP53 under normal conditions, but stimulates apoptosis by repressing CDKN1A under stress conditions. Acts as a negative regulator of telomerase. Has negative and positive effects on RNA polymerase II-dependent transcription. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system; Ligase; EC 6.3.2.19; EC 6.3.2.-; Ubiquitin ligase Chromosomal Location of Human Ortholog: 7q34 Molecular Function: protein binding; zinc ion binding; ubiquitin-protein ligase activity; chromatin binding; ligase activity Biological Process: protein polyubiquitination

Research Articles on MKRN1	**1.** EGFR/PI3K/AKT-mediated ubiquitination and degradation of PTEN are dependent on the MKRN1 E3 ligase.
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