TRC8 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	TRC8 (RNF139), Blocking Peptide
Full Product Name	TRC8 Immunizing Peptide
Product Gene Name	RNF139 blocking peptide
Product Synonym Gene Name	TRC8
Product Synonym Names	RNF139; ring finger protein 139; TRC8; HRCA1; MGC31961; RCA1; patched related protein translocated in renal cancer; multiple membrane spanning receptor TRC8
Sequence	C-HTGAAAEE FNDDT
Species Reactivity	Human, Dog
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	TRC8 peptide (MBS426540) is used for blocking the activity of TRC8 antibody (MBS421811)
Molecular Weight	75,994 Da
OMIM	144700
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for RNF139 blocking peptide	MBS426540 is a blocking peptide targeting RNF139. Also known as TRC8 Immunizing Peptide. Reactive in Human, Dog.
Other Notes	Small volumes of RNF139 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNF139. It may not necessarily be applicable to this product.

NCBI GI #	21314654
NCBI GeneID	11236
NCBI Accession #	NP_009149.2
UniProt Secondary Accession #	O75485; Q7LDL3; B3KMD5
UniProt Related Accession #	Q8WU17
GenBank Nucleotide #	NM_007218.3
NCBI Official Full Name	E3 ubiquitin-protein ligase RNF139
NCBI Official Synonym Full Names	ring finger protein 139
NCBI Official Symbol	RNF139
NCBI Official Synonym Symbols	RCA1; TRC8; HRCA1
UniProt Protein Name	E3 ubiquitin-protein ligase RNF139
UniProt Synonym Protein Names	RING finger protein 139; Translocation in renal carcinoma on chromosome 8 protein

Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	RNF139
UniProt Entry Name	RN139_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase RNF139
NCBI Summary for RNF139	The protein encoded by this gene is a multi-membrane spanning protein containing a RING-H2 finger. This protein is located in the endoplasmic reticulum, and has been shown to possess ubiquitin ligase activity. This gene was found to be interrupted by a t(3:8) translocation in a family with hereditary renal and non-medulary thyroid cancer. Studies of the Drosophila counterpart suggested that this protein may interact with tumor suppressor protein VHL, as well as with COPS5/JAB1, a protein responsible for the degradation of tumor suppressor CDKN1B/P27KIP. [provided by RefSeq, Jul 2008]
UniProt Comments for RNF139	RNF139: E3-ubiquitin ligase; acts as a negative regulator of the cell proliferation through mechanisms involving G2/M arrest and cell death. Required for MHC class I ubiquitination in cells expressing the cytomegalovirus protein US2 before dislocation from the endoplasmic reticulum (ER). Affects SREBP processing by hindering the SREBP/SCAP complex translocation from the ER to the Golgi, thereby reducing SREBF2 target gene expression. Required for INSIG1 ubiquitination. May be required for EIF3 complex ubiquitination. May function as a signaling receptor. Defects in RNF139 may be a cause of renal cell carcinoma (RCC). It is a heterogeneous group of sporadic or hereditary carcinoma derived from cells of the proximal renal tubular epithelium. It is subclassified into clear cell renal carcinoma (non-papillary carcinoma), papillary renal cell carcinoma, chromophobe renal cell carcinoma, collecting duct carcinoma with medullary carcinoma of the kidney, and unclassified renal cell carcinoma. A chromosomal aberration involving RNF139 has been found in a lymphoblastoid cell line established from a family with renal cell carcinoma and thyroid carcinoma. Translocation (3;8)(q14.2;q24.1) with FHIT. RNF139 is found to be fused to FHIT and disrupted within the sterol-sensing domain. In contrast, the FHIT coding region is maintained and expressed. Sporadic cases of renal carcinoma, where an acquired mutation in RNF139 results in the duplication of 12 nucleotides in the 5'-UTR, has also been identified. Protein type: Membrane protein, multi-pass; EC 6.3.2.-; EC 6.3.2.19; Ubiquitin ligase; Ligase; Membrane protein, integral; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 8q24 Cellular Component: endoplasmic reticulum; integral to membrane Molecular Function: ligase activity; protease binding; protein binding; receptor activity; small conjugating protein ligase activity; ubiquitin-protein ligase activity; zinc ion binding Biological Process: negative regulation of cell proliferation; negative regulation of translation; proteasomal ubiquitin-dependent protein catabolic process; protein destabilization; protein polyubiquitination; protein ubiquitination; regulation of protein ubiquitination Disease: Renal Cell Carcinoma, Nonpapillary
Research Articles on RNF139	**1.** TRC8 and TMEM129 are endoplasmic reticulum-associated degradation ubiquitin E3 ligases for viral and cellular targeting of MHC class I. (Review)
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