RAP1A Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	RAP1A (TERF2IP), Blocking Peptide
Full Product Name	RAP1A Blocking Peptide
Product Gene Name	TERF2IP blocking peptide
Product Synonym Names	DRIP5; RAP1; Telomeric repeat-binding factor 2-interacting protein 1; TERF2-interacting telomeric protein 1; TRF2-interacting telomeric protein 1; Dopamine receptor-interacting protein 5; Repressor/activator protein 1 homolog; RAP1 homolog; hRap1
Host	Synthetic
Species Reactivity	Human, Monkey
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	RAP1A peptide (MBS824247) is used for blocking the activity of RAP1A antibody (MBS820791)
Molecular Weight	44,260 Da
OMIM	605061
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for TERF2IP blocking peptide	Blocking (BL)
Application Notes for TERF2IP blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for TERF2IP blocking peptide	MBS824247 is a blocking peptide targeting TERF2IP. Also known as RAP1A Blocking Peptide. Reactive in Human, Monkey. Host: Synthetic. The peptide is used to block Anti-RAP1A Antibody reactivity.
Other Notes	Small volumes of TERF2IP 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 TERF2IP. It may not necessarily be applicable to this product.

NCBI GI #	52627149
NCBI GeneID	54386
NCBI Accession #	NP_061848.2
UniProt Primary Accession #	Q9NYB0
UniProt Secondary Accession #	Q4W4Y2; Q8WYZ3; Q9NWR2; B4DQN4
UniProt Related Accession #	Q9NYB0
GenBank Nucleotide #	NM_018975.3
NCBI Official Full Name	telomeric repeat-binding factor 2-interacting protein 1

NCBI Official Synonym Full Names	telomeric repeat binding factor 2, interacting protein
NCBI Official Symbol	TERF2IP
NCBI Official Synonym Symbols	RAP1; DRIP5
UniProt Protein Name	Telomeric repeat-binding factor 2-interacting protein 1
UniProt Synonym Protein Names	Dopamine receptor-interacting protein 5; Repressor/activator protein 1 homolog; RAP1 homolog; hRap1
Protein Family	Telomeric repeat-binding factor 2-interacting protein
UniProt Gene Name	TERF2IP
UniProt Synonym Gene Names	DRIP5; RAP1; TERF2-interacting telomeric protein 1; TRF2-interacting telomeric protein 1; RAP1 homolog; hRap1
UniProt Entry Name	TE2IP_HUMAN
NCBI Protein Information	telomeric repeat-binding factor 2-interacting protein 1; hRap1; RAP1 homolog; TRF2-interacting telomeric protein 1; TERF2-interacting telomeric protein 1; repressor/activator protein 1 homolog; TRF2-interacting telomeric RAP1 protein; dopamine receptor interacting protein 5; dopamine receptor-interacting protein 5
NCBI Summary for TERF2IP	The gene encodes a protein that is part of a complex involved in telomere length regulation. Pseudogenes are present on chromosomes 5 and 22. [provided by RefSeq, Apr 2010]
UniProt Comments for TERF2IP	TERF2IP: Acts both as a regulator of telomere function and as a transcription regulator. Involved in the regulation of telomere length and protection as a component of the shelterin complex (telosome). In contrast to other components of the shelterin complex, it is dispensible for telomere capping and does not participate in the protection of telomeres against non-homologous end-joining (NHEJ)-mediated repair. Instead, it is required to negatively regulate telomere recombination and is essential for repressing homology-directed repair (HDR), which can affect telomere length. Does not bind DNA directly: recruited to telomeric double-stranded 5'-TTAGGG-3' repeats via its interaction with TERF2. Independently of its function in telomeres, also acts as a transcription regulator: recruited to extratelomeric 5'- TTAGGG-3' sites via its association with TERF2 or other factors, and regulates gene expression. When cytoplasmic, associates with the I-kappa-B-kinase (IKK) complex and acts as a regulator of the NF-kappa-B signaling by promoting IKK-mediated phosphorylation of RELA/p65, leading to activate expression of NF-kappa-B target genes. Associates with the I-kappa-B-kinase (IKK) core complex, composed of CHUK, IKBKB and IKBKG. Homodimer. Component of the shelterin complex (telosome) composed of TERF1, TERF2, TINF2, TERF2IP ACD and POT1. Interacts with TERF2; the interaction is direct. Does not interact with TERF1. Interacts with SLX4/BTBD12. Ubiquitous. Highly expressed. Belongs to the RAP1 family. Protein type: DNA replication Chromosomal Location of Human Ortholog: 16q23.1 Cellular Component: nucleoplasm; nuclear chromosome; chromosome, telomeric region; nuclear telomere cap complex; Mre11 complex; nuclear chromosome, telomeric region; cytoplasm; nuclear envelope; nucleus Molecular Function: protein binding; telomeric DNA binding Biological Process: negative regulation of telomere maintenance; positive regulation of I-kappaB kinase/NF-kappaB cascade; transcription, DNA-dependent; regulation of transcription, DNA-dependent; negative regulation of DNA recombination at telomere; telomere maintenance via telomerase; positive regulation of peptidyl-serine phosphorylation; telomere maintenance; activation of NF-kappaB transcription factor; protection from non-homologous end joining at telomere
Research Articles on TERF2IP	**1.** results indicate that Rap1 miRNA can effectively enhance sensitivity of HepG2 cell line to 5-FU chemotherapy
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