Telomeric Repeat-Binding Factor 2-Interacting Protein 1 (TERF2IP) ELISA Kit for Canine

PRODUCT OVERVIEW

Product Name	Telomeric repeat-binding factor 2-interacting protein 1 (TERF2IP), ELISA Kit
Full Product Name	Canine Telomeric repeat-binding factor 2-interacting protein 1 (TERF2IP) ELISA Kit
Product Gene Name	TERF2IP elisa kit
Species Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	44,260 Da
OMIM	605061
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for TERF2IP elisa kit	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for TERF2IP elisa kit	MBS7243142 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Telomeric repeat-binding factor 2-interacting protein 1 (TERF2IP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TERF2IP. The ELISA analytical biochemical technique of the MBS7243142 kit is based on TERF2IP antibody-TERF2IP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TERF2IP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TERF2IP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of TERF2IP elisa kit 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 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; PP8000; 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; telomere maintenance; positive regulation of peptidyl-serine phosphorylation; activation of NF-kappaB transcription factor; protection from non-homologous end joining at telomere
Research Articles on TERF2IP	**1.** Loss of epithelial integrity in tumorigenesis involves activation of RAP1 via exchange protein directly activated by cAMP (EPAC).
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