

RAP1 / TERF2IP Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2963a

Specification

RAP1 / TERF2IP Antibody (C-Term) - Product Information

Application	WB
Primary Accession	Q9NYB0
Other Accession	NP_061848.2 , 54386 , 57321 (mouse) , 307861 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	44260

RAP1 / TERF2IP Antibody (C-Term) - Additional Information

Gene ID 54386

Other Names

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, TERF2IP, DRIP5, RAP1

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RAP1 / TERF2IP Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

RAP1 / TERF2IP Antibody (C-Term) - Protein Information

Name TERF2IP

Synonyms DRIP5, RAP1

Function

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.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q91VL8}. Cytoplasm {ECO:0000250|UniProtKB:Q91VL8}. Chromosome {ECO:0000250|UniProtKB:Q91VL8}. Chromosome, telomere {ECO:0000250|UniProtKB:Q91VL8}. Note=Associates with chromosomes, both at telomeres and in extratelomeric sites. Also exists as a cytoplasmic form, where it associates with the IKK complex {ECO:0000250|UniProtKB:Q91VL8}

Tissue Location

Ubiquitous. Highly expressed.

RAP1 / TERF2IP Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RAP1 / TERF2IP Antibody (C-Term) - Images



AF2963a (0.2 µg/ml) staining of Human Tonsil lysate (35 µg protein in RIPA buffer). Primary

incubation was 1 hour. Detected by chemiluminescence.

RAP1 / TERF2IP Antibody (C-Term) - References

The cAMP/Epac1/Rap1 pathway in pancreatic carcinoma. Lorenz R, Aleksic T, Wagner M, Adler G, Weber CK, Pancreas 2008 Jul 37 (1): 102-3. PMID: 18580452