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TERF2IP Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14047b

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9NYB0
Other Accession	Q4R4I0, NP_061848.2
Reactivity	Human, Rat, Mouse
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	44260
Antigen Region	349-378

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
Target/Specificity	This TERF2IP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 349-378 amino acids from the C-terminal region of human TERF2IP.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TERF2IP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

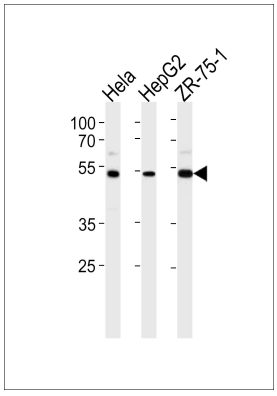
Background

The gene encodes a protein that is part of a complex involved in telomere length regulation. Pseudogenes are present on chromosomes 5 and 22.

References

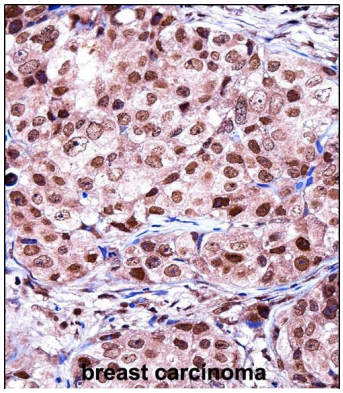
Teo, H., et al. Nat. Cell Biol. 12(8):758-767(2010)
Martinez, P., et al. Nat. Cell Biol. 12(8):768-780(2010)
Da-Silva, N., et al. Dig Liver Dis 42(8):544-548(2010)
Bombarde, O., et al. EMBO J. 29(9):1573-1584(2010)
Shen, J., et al. Cancer Epidemiol. Biomarkers Prev. 19(1):219-228(2010)

Images



TERF2IP Antibody (C-term) (Cat. #AP14047b) western blot analysis in Hela,HepG2,ZR-75-1 cell line lysates (35ug/lane).This demonstrates the TE2IP antibody detected the TE2IP protein (arrow).

TERF2IP Antibody (C-term) (AP14047b)immunohistochemistry analysis in formalin



fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TERF2IP Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.