

Terf2ip antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14093

Product Information

Application	WB
Primary Accession	Q91VL8
Other Accession	NM_020584 , NP_065609
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43353

Additional Information

Gene ID	57321
Alias Symbol	Rap1
Other Names	Telomeric repeat-binding factor 2-interacting protein 1, TERF2-interacting telomeric protein 1, TRF2-interacting telomeric protein 1, Repressor/activator protein 1 homolog, RAP1 homolog, Terf2ip, Rap1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Terf2ip antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Terf2ip antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Terf2ip
Synonyms	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 dispensable 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.

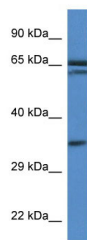
Cellular Location

Nucleus. Cytoplasm. Chromosome. Chromosome, telomere. Note=Associates with chromosomes, both at telomeres and in extratelomeric sites (PubMed:20622869). Also exists as a cytoplasmic form, where it associates with the IKK complex (PubMed:20622870).

References

Carninci P.,et al.Science 309:1559-1563(2005).
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Osada N.,et al.Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
Tan M.,et al.Gene 323:1-10(2003).
Ballif B.A.,et al.Mol. Cell. Proteomics 3:1093-1101(2004).

Images



WB Suggested Anti-Terf2ip Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.