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# Anti-RAP1A Antibody

Rabbit polyclonal antibody to RAP1A
Catalog # AP59846

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q9NYB0 |
| **Reactivity** | Human, Monkey |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 44260 |

## Additional Information

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| **Gene ID** | 54386 |
| **Other 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 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RAP1A. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **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 |

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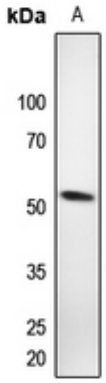
| | telomeres, also acts as a transcription regulator: recruited to extratelomeric 5'-TTAGGG-3' sites via its association with TERF2 or other factors, and regulates gene expression. When cytoplasmic, associates with the I-kappa-B-kinase (IKK) complex and acts as a regulator of the NF-kappa-B signaling 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

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RAP1A. The exact sequence is proprietary.

## Images




Western blot analysis of RAP1A expression in HEK293 (A) whole cell lysates.