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## anti-RAP1 antibody





#### Overview

Quantity:	100 μL
Target:	RAP1 (TERF2IP)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

#### **Product Details**

Immunogen:	This TERF2IP antibody is generated from a mouse immunized with a recombinant protein from human TERF2IP.
Clone:	4C8
Isotype:	lgG1
Cross-Reactivity:	Human
Purification:	Purified by Protein G.

### **Target Details**

Target:	RAP1 (TERF2IP)
Alternative Name:	TERF2IP (TERF2IP Products)

#### **Target Details**

Background:

Synonyms: RAP1, DRIP5, 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, PP8000

Background: 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.

Gene ID:

54386

UniProt:

Q9NYB0

Pathways:

Cell Division Cycle, Telomere Maintenance

#### **Application Details**

Application Notes:

WB 1:300-5000

FCM 1:20-100

IHC-P 1:200-400

Restrictions:

For Research Use only

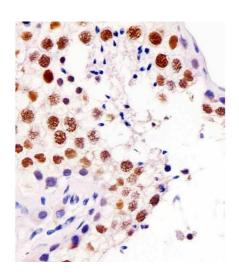
#### Handling

Format:	Liquid
Concentration:	0.5 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

#### Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

#### **Images**



#### **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Paraformaldehyde-fixed, paraffin embedded human testis tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with TERF2IP (1664CT564.52.88) Monoclonal Antibody (bsm-51368M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.