

## Anti-RAP1/TERF2IP Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

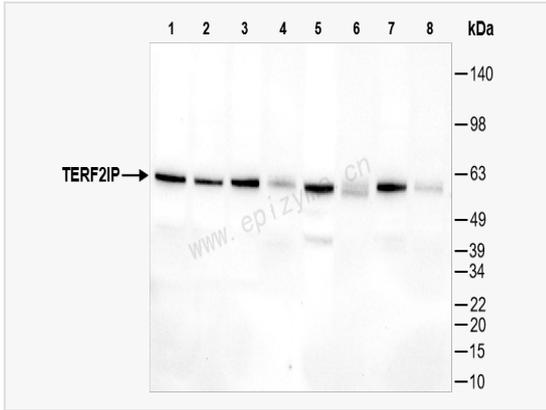
Catalog # M014831

### Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:300; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	87C88P28
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human RAP1/TERF2IP
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-RAP1/TERF2IP Mouse mAb [87C88P28] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	Dopamine receptor interacting protein 5, Dopamine receptor-interacting protein 5, DRIP 5, DRIP5, hRap1, MGC105533, RAP 1, RAP1 homolog, RAP1, yeast, homolog of, RAP1, yeast, homolog of, Repressor/activator protein 1 homolog, TE2IP_HUMAN, Telomeric Repeat Binding Factor 2 Interacting Protein, Telomeric repeat-binding factor 2-interacting protein 1, TERF2-interacting protein, TERF2-interacting telomeric protein 1, TERF2IP, TRF2 Interacting Telomeric Protein RAP1, TRF2 interacting telomeric RAP1 protein, TRF2-interacting telomeric protein 1, TRF2-interacting telomeric protein.
Calculated MW	Calculated MW: 44 kDa; Observed MW: 55 kDa
Uniprot ID	Q9NYB0
Gene ID	54386
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.



Western Blot - Anti-RAP1/TERF2IP Mouse mAb [87C88P28]

All lanes: M014831 at 1:2,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 5: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

Lane 6: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates

Lane 7: 293T (Human embryonic kidney cell) whole cell lysates

Lane 8: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates

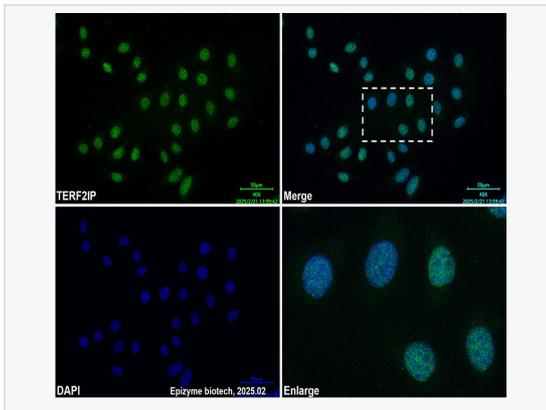
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 44 kDa

Observed band size: 55 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-RAP1/TERF2IP Mouse mAb [87C88P28]

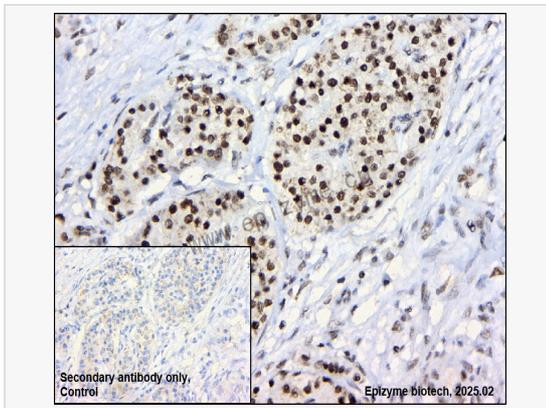
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibody: M014831 at 1:100 dilution

Secondary antibody: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-RAP1/TERF2IP Mouse mAb [87C88P28]

Sample: Paraformaldehyde-fixed, paraffin embedded human pancreatic cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014831 at 1:300 dilution

Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.