

TRF1 (PT1147R) PT[®] Rabbit mAb

CatalogNo: YM8879 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IF, IP, ELISA

MW

- 50kD (Calculated)
- 60kD (Observed)

Isotype

- IgG, Kappa

Recommended Dilution Ratios

WB 1:1000-1:5000**IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Basic Information

Clonality Monoclonal**Clone Number** PT1147R

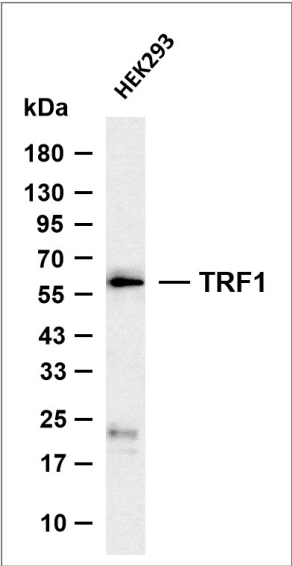
Immunogen Information

Specificity Endogenous

Target Information

Gene name	TERF1		
Protein Name	Telomeric repeat-binding factor 1		
	Organism	Gene ID	UniProt ID
	Human	7013;	P54274;
	Mouse	21749;	P70371;
Cellular Localization	Nucleus. Cytoplasm, cytoskeleton, spindle. Chromosome, telomere. Colocalizes with telomeric DNA in interphase and prophase cells. Telomeric localization decreases in metaphase, anaphase and telophase. Associates with the mitotic spindle.		
Tissue specificity	Highly expressed and ubiquitous. Isoform Pin2 predominates.		
Function	<p>Domain:The acidic N-terminal domain binds to the ankyrin repeats of TNKS1 and TNKS2. The C-terminal domain binds microtubules.,Function:Binds the telomeric double-stranded TTAGGG repeat and negatively regulates telomere length. Involved in the regulation of the mitotic spindle. Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends; without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways.,induction:Pin2 expression is tightly regulated during the cell cycle; levels are low in G1 and S phase and increase during G2 phase and mitosis.,PTM:ADP-ribosylation by TNKS1 or TNKS2 diminishes its ability to bind to telomeric DNA.,PTM:Phosphorylated preferentially on Ser-219 in an ATM-dependent manner in response to ionizing DNA damage.,similarity:Contains 1 HTH myb-type DNA-binding domain.,subcellular location:Colocalizes with telomeric DNA in interphase and metaphase cells and is located at chromosome ends during metaphase. Associates with the mitotic spindle.,subunit:Homodimer; can contain both isoforms. Found in a complex with POT1; TINF2 and TNKS1. Interacts with ATM, TINF2, TNKS1, TNKS2, PINX1, NEK2 and MAPRE1. Component of the shelterin complex (telosome) composed of TERF1, TERF2, TINF2, TERF2IP ACD and POT1.,tissue specificity:Highly expressed and ubiquitous. Isoform Pin2 predominates.,</p>		

| Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TRF1 (PT1147R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HEK293 Predicted band size: 50kDa Observed band size: 60kDa

| Contact information

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