

For Research Use Only

# RNF4 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84770-1-PBS



## Basic Information

Catalog Number: 84770-1-PBS	GenBank Accession Number: BC031935	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 6047	CloneNo.: 242197A10
Source: Rabbit	UNIPROT ID: P78317	
Isotype: IgG	Full Name: ring finger protein 4	
Immunogen Catalog Number: AG12115	Calculated MW: 190 aa, 21 kDa	

## Applications

**Tested Applications:**  
IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Background Information

RNF4 is a E3 ubiquitin-protein ligase that binds polysumoylated chains covalently attached to proteins and mediates 'Lys-6', 'Lys-11', 'Lys-48' and 'Lys-63'-linked polyubiquitination of those substrates and their subsequent targeting to the proteasome for degradation. It regulates the degradation of several proteins including PML and PEA3 [PMID:18408734]. It also participates in chromosome alignment and spindle assembly, and regulates the kinetochore CENPH-CENPI-CENPK complex by targeting polysumoylated CENPI to proteasomal degradation. In addition, RNF4 can regulate the cellular responses to hypoxia and heat shock through degradation of respectively EPAS1 and PARP1 [PMID:20026589]. Alternatively, it may also bind DNA/nucleosomes and have a more direct role in the regulation of transcription for instance enhancing basal transcription and steroid receptor-mediated transcriptional activation [PMID:11319220].

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

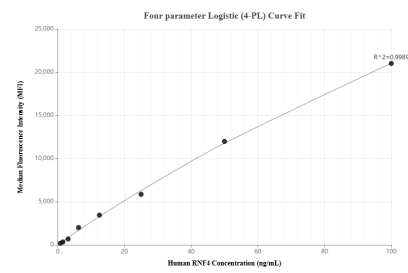
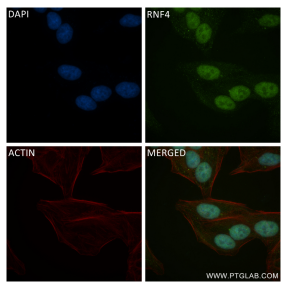
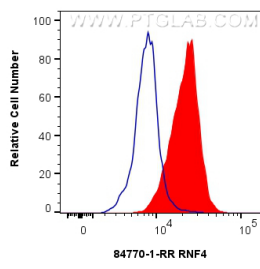
T: 4006900926

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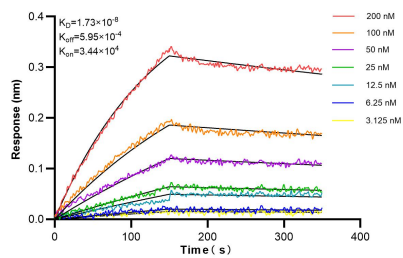
Selected Validation Data



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug RNF4 Recombinant antibody (84770-1-RR, Clone:242197A10) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 84770-1-PBS in a different storage buffer

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RNF4 antibody (84770-1-RR, Clone: 242197A10 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84770-1-PBS in a different storage buffer formulation.

Cytometric bead array standard curve of MP01553-1, RNF4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84770-1-PBS. Detection antibody: 84770-2-PBS. Standard: Ag12115. Range: 0.781-100 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84770-1-RR against Human RNF4 were performed. The affinity constant is 17.3 nM.