

For Research Use Only

# RNF4 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84770-1-PBS



## Basic Information

<b>Catalog Number:</b> 84770-1-PBS	<b>GenBank Accession Number:</b> BC031935	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6047	<b>CloneNo.:</b> 242197A10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P78317	
<b>Isotype:</b> IgG	<b>Full Name:</b> ring finger protein 4	
<b>Immunogen Catalog Number:</b> AG12115	<b>Calculated MW:</b> 190 aa, 21 kDa	

## Applications

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

**Species Specificity:**  
human

## Product Information

84770-1-PBS targets RNF4 as part of a matched antibody pair:

MP01553-1: 84770-1-PBS capture and 84770-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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.  
**Storage Buffer:**  
PBS Only

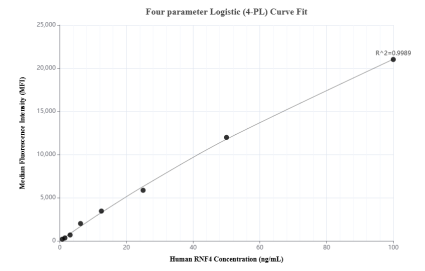
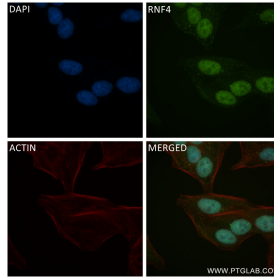
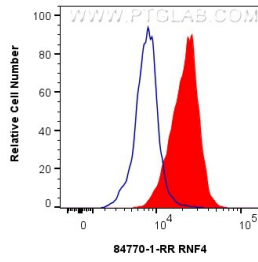
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

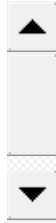
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data

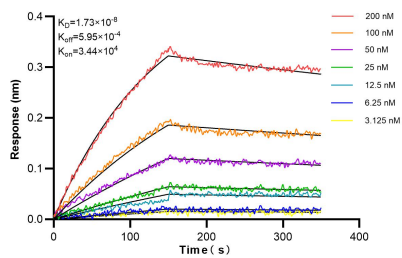


1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug RNF4 Recombinant antibody (84770-1-RR, Clone:242197A10) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and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



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



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