

For Research Use Only

# TROAP Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86735-2-PBS



## Basic Information

<b>Catalog Number:</b> 86735-2-PBS	<b>GenBank Accession Number:</b> BC032583	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10024	<b>CloneNo.:</b> 251538B10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q12815	
<b>Isotype:</b> IgG	<b>Full Name:</b> trophinin associated protein (tastin)	
<b>Immunogen Catalog Number:</b> AG4562	<b>Calculated MW:</b> 778 aa, 84 kDa	
	<b>Observed MW:</b> 120 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

86735-2-PBS targets TROAP as part of a matched antibody pair:

MP02627-1: 86735-2-PBS capture and 86735-1-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

TROAP, also known as tastin, was first cloned from human epithelial cells in 1995. It as a cytoplasmic protein is composed of 778 amino acid residues and contains potential phosphorylation sites for protein kinases. TROAP highly expresses in bone marrow, testis and thymus, and is involved in centrosome integrity and spindle assembly during mitosis (PMID: 33500384). TROAP has been shown to promote some tumor progressions, such as those of breast and colorectal cancers (PMID: 33692939).

## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

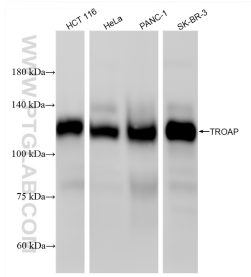
For technical support and original validation data for this product please contact:

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

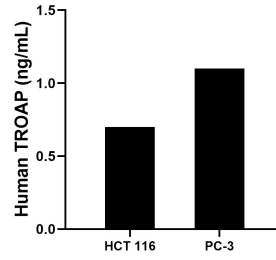
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

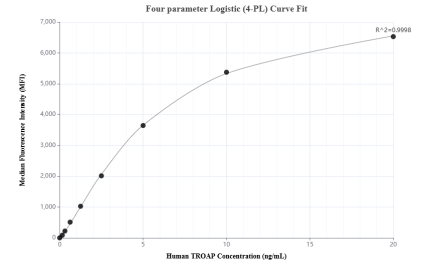
## Selected Validation Data



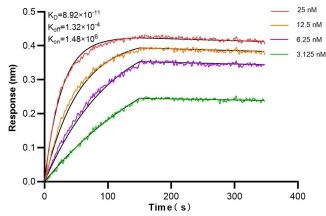
Various lysates were subjected to SDS PAGE followed by western blot with 86735-2-RR (TROAP antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86735-2-PBS in a different storage buffer formulation.



The mean TROAP concentration was determined to be 0.7 ng/mL in HCT 116 cell extract based on a 1.3 mg/mL extract load, 1.1 ng/mL in PC-3 cell extract based on a 1.3 mg/mL extract load.



Cytometric bead array standard curve of MP02627-1, TROAP Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86735-2-PBS. Detection antibody: 86735-1-PBS. Standard: Ag4562. Range: 0.156-20 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 86735-2-RR against Human TROAP were performed. The affinity constant is 89.2 pM.