

For Research Use Only

# Securin Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 83981-4-PBS



## Basic Information

<b>Catalog Number:</b> 83981-4-PBS	<b>GenBank Accession Number:</b> BC101834	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9232	<b>CloneNo.:</b> 241090G10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95997	
<b>Isotype:</b> IgG	<b>Full Name:</b> pituitary tumor-transforming 1	
<b>Immunogen Catalog Number:</b> AG12670	<b>Calculated MW:</b> 202 aa, 22 kDa	

## Applications

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

**Species Specificity:**  
human

## Product Information

83981-4-PBS targets Securin as part of a matched antibody pair:

MP00876-1: 83981-2-PBS capture and 83981-4-PBS detection (validated in Cytometric bead array)

MP00876-2: 83981-1-PBS capture and 83981-4-PBS detection (validated in Cytometric bead array)

MP00876-3: 83981-4-PBS capture and 83981-3-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

Securin, also known as the pituitary tumor transforming gene (PTTG1), was first isolated from rat pituitary tumor cells. Securin is a multi-functional protein that regulates sister chromatid segregation in mitosis, DNA repair, gene transcription, metabolism, and organ development. Securin is normally expressed in tissues with high proliferative activity, including the spleen, thymus gland, and testis, whereas it is rarely expressed in differentiated mature tissues (PMID: 22563433, PMID: 36123907). The calculated molecular weight of Securin is 22 kDa. With post-translational modification, the molecular weight of Securin will be migrated to 28 kDa.

## Storage

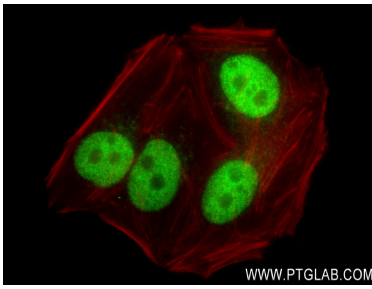
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

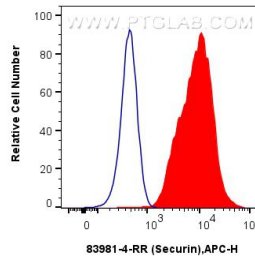
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

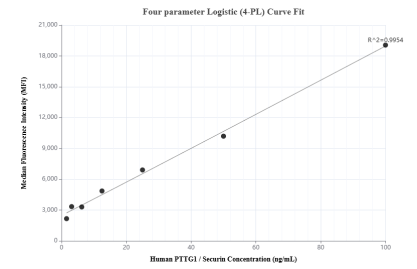
## Selected Validation Data



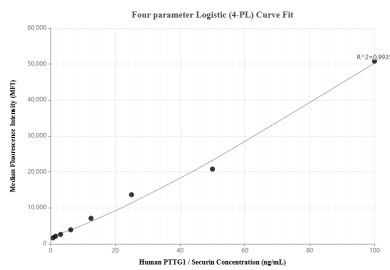
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Securin antibody (83981-4-RR, Clone: 241090G10) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83981-4-PBS in a different storage buffer formulation.



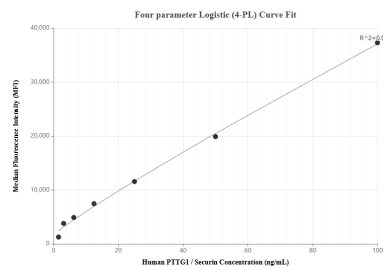
$1 \times 10^6$  Jurkat cells were intracellularly stained with 0.25 ug Securin Recombinant antibody (83981-4-RR, Clone:241090G10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83981-4-PBS in a different storage buffer formulation.



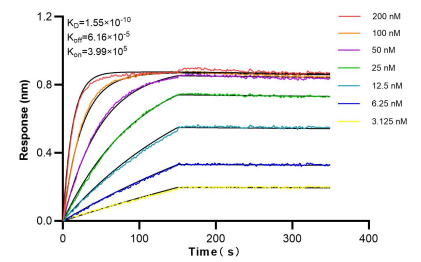
Cytometric bead array standard curve of MP00876-3, Securin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83981-4-PBS. Detection antibody: 83981-3-PBS. Standard: Ag12670. Range: 1.56-100 ng/mL



Cytometric bead array standard curve of MP00876-1, Securin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83981-2-PBS. Detection antibody: 83981-4-PBS. Standard: Ag12670. Range: 0.78-100 ng/mL



Cytometric bead array standard curve of MP00876-2, Securin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83981-1-PBS. Detection antibody: 83981-4-PBS. Standard: Ag12670. Range: 1.56-100 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 83981-4-RR against Human Securin were performed. The affinity constant is 0.15 nM.