

For Research Use Only

Securin Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 83981-4-PBS



Basic Information

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

Applications

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

Species Specificity:
human

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 chromatin 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.
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:

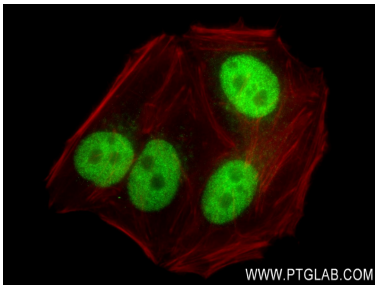
T: 4006900926

E: Proteintech-CN@ptglab.com

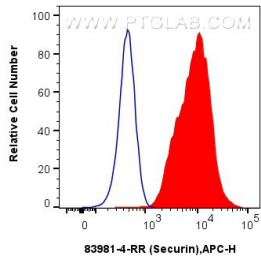
W: ptgcn.com

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

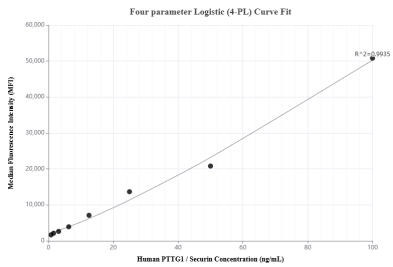
Selected Validation Data



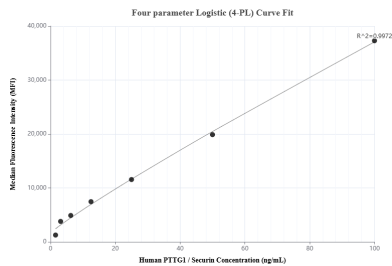
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Securin antibody (83981-4-RR, Clone: 241090G10) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83981-4-PBS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



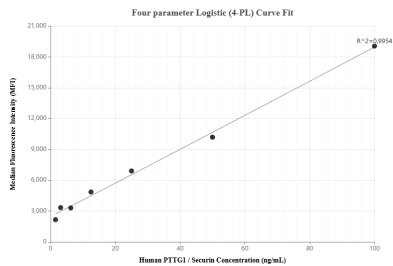
1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug Securin Recombinant antibody (83981-4-RR, Clone:241090G10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83981-4-PBS in a different storage buffer formulation.



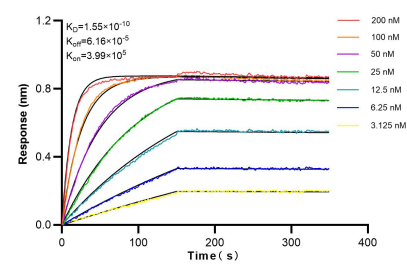
Cytometric bead array standard curve of MP00876-1, Securin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83981-2-PBS. Detection antibody: 83981-4-PBS. Standard: Ag12670. Range: 0.78-100 ng/mL.



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.



Cytometric bead array standard curve of MP00876-3, Securin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83981-3-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 0.155 nM.