

For Research Use Only

FOXP4 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84855-1-PBS



Basic Information

Catalog Number: 84855-1-PBS	GenBank Accession Number: BC052803	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 116113	CloneNo.: 242356B4
Source: Rabbit	UNIPROT ID: Q8IVH2	
Isotype: IgG	Full Name: forkhead box P4	
Immunogen Catalog Number: AG10047	Calculated MW: 678 aa, 73 kDa	

Applications

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

Species Specificity:
human

Product Information

84855-1-PBS targets FOXP4 as part of a matched antibody pair:

MP01621-1: 84855-1-PBS capture and 84855-2-PBS detection (validated in Cytometric bead array)

MP01621-2: 84855-1-PBS capture and 84855-3-PBS detection (validated in Sandwich ELISA)

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

FOXP4, also named as FKHLA, belongs to the FOX family. FOXP4 has been implicated in diverse biological processes in tumor initiation and progression. It has been demonstrated that FOXP4 is significantly upregulated in breast cancer, hepatocellular carcinoma and oral squamous cell carcinoma (PMID: 34590150). FOXP4 has 3 isoforms with the molecular mass of 72-73 kDa.

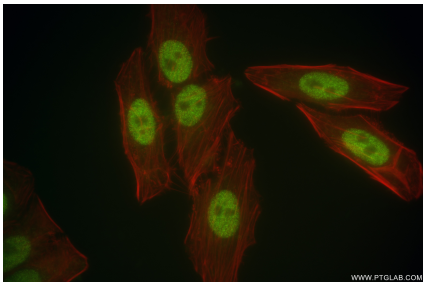
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

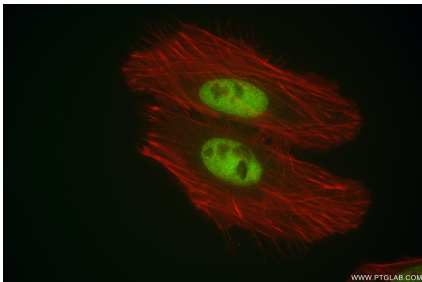
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

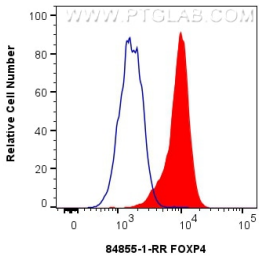
Selected Validation Data



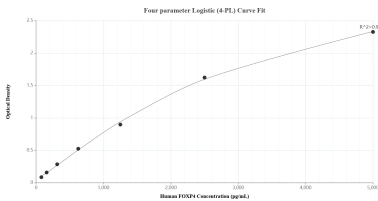
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FOXP4 antibody (84855-1-RR, Clone: 242356B4) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84855-1-PBS in a different storage buffer formulation.



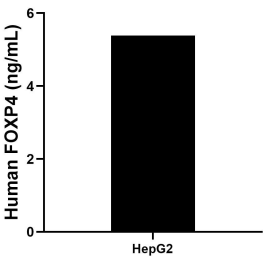
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using FOXP4 antibody (84855-1-RR, Clone: 242356B4) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84855-1-PBS in a different storage buffer formulation.



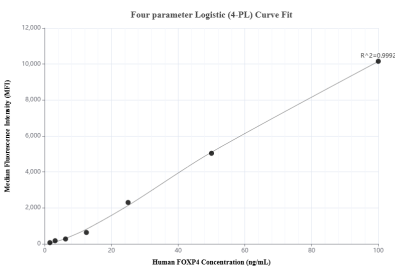
1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug FOXP4 Recombinant antibody (84855-1-RR, Clone:242356B4) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 84855-1-PBS in a different storage buffer formulation.



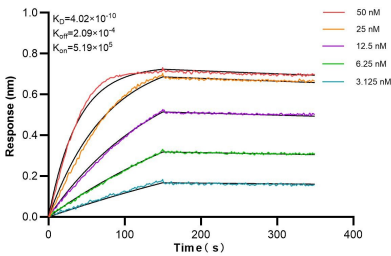
Sandwich ELISA standard curve of MP01621-2, Human FOXP4 Recombinant Matched Antibody Pair - PBS only. 84855-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag10047. 84855-3-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



The mean FOXP4 concentration was determined to be 5.4 ng/mL in HepG2 cell extract based on a 1.0 mg/mL Extract load.



Cytometric bead array standard curve of MP01621-1, FOXP4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84855-1-PBS. Detection antibody: 84855-2-PBS. Standard: Ag10047. Range: 1.563-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 84855-1-RR against Human FOXP4 were performed. The affinity constant is 0.402 nM.