

For Research Use Only

Beta Arrestin 1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83837-1-PBS



Basic Information

| | | |
|---|--|---|
| Catalog Number: 83837-1-PBS | GenBank Accession Number: BC003636 | Purification Method: Protein A purification |
| Size: 100ug, Concentration: 1 mg/ml by Nanodrop; | GeneID (NCBI): 408 | CloneNo.: 240974C3 |
| Source: Rabbit | UNIPROT ID: P49407 | |
| Isotype: IgG | Full Name: arrestin, beta 1 | |
| Immunogen Catalog Number: AG7608 | Calculated MW: 47 kDa | |
| | Observed MW: 47-55 kDa | |

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

83837-1-PBS targets Beta Arrestin 1 as part of a matched antibody pair:

MP00811-2: 83837-2-PBS capture and 83837-1-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

β -Arrestins (ARRBs), the best known regulators of G protein-coupled receptor signaling, are versatile and multifunctional adapter proteins that regulate diverse cellular functions, including cell growth, apoptosis and immune responses. Overexpression of beta Arrestin 1 has been found in various cancers, indicating it as a potential therapeutic target for cancer treatment. Recently expression of ARRB1 in saliva has been identified as a candidate circadian biomarker. ARRB1 migrated as a doublet of two bands of 45 and 55 kDa (PMID:28947386).

Storage

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

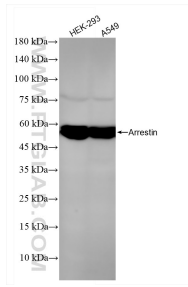
For technical support and original validation data for this product please contact:

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

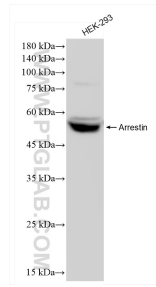
E: proteintech@ptglab.com
W: ptglab.com

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

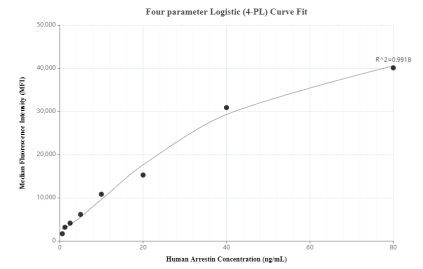
Selected Validation Data



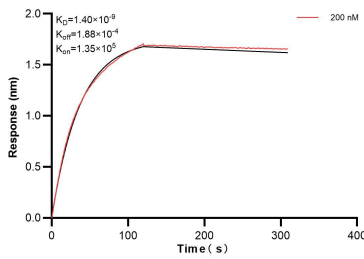
Various lysates were subjected to SDS PAGE followed by western blot with 83837-1-RR (Beta Arrestin 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83837-1-PBS in a different storage buffer formulation.



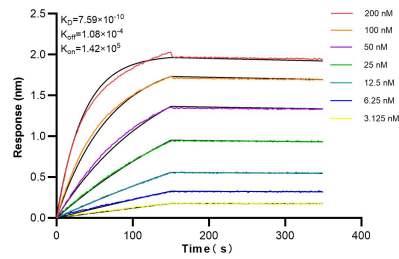
HEK-293 cells were subjected to SDS PAGE followed by western blot with 83837-1-RR (Arrestin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83837-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00811-2, Beta Arrestin 1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83837-2-PBS. Detection antibody: 83837-1-PBS. Standard: Ag7608. Range: 0.625-80 ng/mL.



Biolayer interferometry (BLI) kinetic assay of 83837-1-PBS against Human Beta Arrestin 1 was performed. The affinity constant is 1.40 nM.



Biolayer interferometry (BLI) kinetic assays of 83837-1-RR against Human Beta Arrestin 1 were performed. The affinity constant is 0.759 nM.