

For Research Use Only

# Phospho-Beta Arrestin 1 (Ser412) Recombinant monoclonal antibody, PBS Only

Catalog Number: 87795-3-PBS



## Basic Information

|                                |                                        |                                                |
|--------------------------------|----------------------------------------|------------------------------------------------|
| Catalog Number:<br>87795-3-PBS | GenBank Accession Number:<br>NM_004041 | Purification Method:<br>Protein A purification |
| Source:<br>Rabbit              | GeneID (NCBI):<br>408                  | CloneNo.:<br>253371E6                          |
| Isotype:<br>IgG                | UNIPROT ID:<br>P49407                  |                                                |
|                                | Full Name:<br>arrestin, beta 1         |                                                |
|                                | Calculated MW:<br>47 kDa               |                                                |
|                                | Observed MW:<br>50 kDa                 |                                                |

## Applications

Tested Applications:  
WB, Indirect ELISA

Species Specificity:  
human

## Background Information

$\beta$ -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. Phospho  $\beta$  arrestin 1 (Ser412) is a key phosphorylated isoform of  $\beta$  arrestin 1. Its Ser412 residue is mainly phosphorylated by ERK, governing GPCR desensitization, receptor internalization and downstream signal transduction. This modification regulates  $\beta$  arrestin 1 subcellular localization and scaffold function, participating in cell proliferation and insulin related ERK signaling desensitization as a vital negative feedback regulator. (PMID: 10347142, PMID: 15520010)

## 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, pH7.3

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

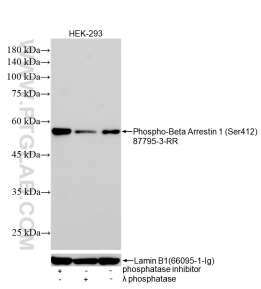
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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# Selected Validation Data



Non-treated HEK-293 cells, phosphatase inhibitor treated HEK-293 cells and λ phosphatase treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 87795-3-RR (Phospho-Beta Arrestin 1 (Ser412) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Lamin B1 (66095-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 87795-3-

