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## Phospho-beta-Arrestin 1 (Ser412) Rabbit pAb

Catalog Number: bs-3048R

Target Protein: Phospho-beta-Arrestin 1 (Ser412)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Mouse (predicted:Human, Rat, Cow)

Predicted MW: 45 kDa

Subcellular Cell membrane ,Cytoplasm ,Nucleus

Locations:

Entrez Gene: 408

Swiss Prot: P49407

Source: KLH conjugated Synthesised phosphopeptide derived from human beta-Arrestin 1 around the phosphorylation site of Ser412: TG(p-S)PR.

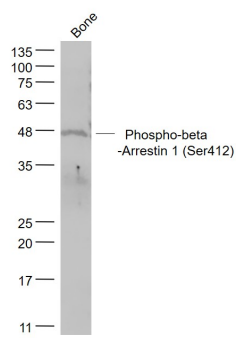
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Beta Arrestin 1 is a member of a family of proteins that are widely expressed but especially abundant in the central nervous system. Serving as an adaptor or scaffold molecule, beta Arrestin 1 is essential for mitogenic signaling. It mediates agonist dependent desensitization and internalization of G protein coupled receptors (GPCRs, e.g., beta 2 adrenergic receptor). After binding to their ligand and interacting with heterotrimeric G proteins, GPCRs are phosphorylated by G protein receptor kinases (GRKs) on serine residues. Beta Arrestin 1 has important roles in the cytoplasm and at the plasma membrane in the desensitization and internalization of G protein coupled receptors (GPCRs) and is increasingly appreciated to play an important role in the endocytosis and signaling of GPCRs. Beta Arrestin 1 in the cytosol is phosphorylated by ERK1 and 2 on serine 412 in a negative feedback mechanism and binds to the phosphorylated receptors at the plasma membrane. Serine 412 is then dephosphorylated and the GPCRs are internalized, leading to activation of the Ras, Raf, ERK1 and 2 signaling pathway.

# VALIDATION IMAGES



Sample: Bone (Mouse) Lysate at 40 ug Primary: Anti- Phospho-beta-Arrestin 1 (Ser412) (bs-3048R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD  
Observed band size: 46 kD