

Beta-arrestin-1 monoclonal antibody

Catalog: MB66528

Host: Mouse

Reactivity: Human

BackGround:

Arrestin proteins function as negative regulators of G protein-coupled receptor (GPCR) signaling. Cognate ligand binding stimulates GPCR phosphorylation, which is followed by binding of arrestin to the phosphorylated GPCR and the eventual internalization of the receptor and desensitization of GPCR signaling. Four distinct mammalian arrestin proteins are known. Arrestin 1 (also known as S-arrestin) and arrestin 4 (X-arrestin) are localized to retinal rods and cones, respectively. Arrestin 2 (also known as β -arrestin 1) and arrestin 3 (β -arrestin 2) are ubiquitously expressed and bind to most GPCRs. β -arrestins function as adaptor and scaffold proteins and play important roles in other processes, such as recruiting c-Src family proteins to GPCRs in Erk activation pathways. β -arrestins are also involved in some receptor tyrosine kinase signaling pathways. Additional evidence suggests that β -arrestins translocate to the nucleus and help regulate transcription by binding transcriptional cofactors. The non-visual β -arrestins respond to glucocorticoid signaling, with differential responses observed among family members. Specifically, β -arrestin 1 expression is increased in response to glucocorticoid receptor activation whereas β -arrestin 2 shows a concomitant decrease in expression.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 51 kDa

Swiss-Prot:

P49407

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

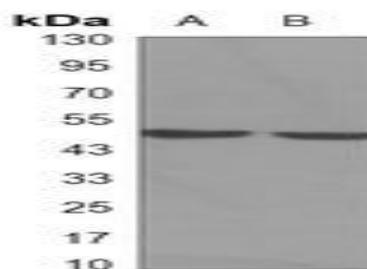
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of Beta-arrestin-1 protein.

DATA:



Western blot analysis of Beta-arrestin-1 expression in K562 (A), HeLa (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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