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Arrestin-mediated signaling: Is there a controversy?

Gurevich VV *et al.* Arrestin-mediated signaling

Vsevolod V Gurevich, Eugenia V Gurevich

### Abstract

The activation of the mitogen-activated protein (MAP) kinases extracellular signal-regulated kinase (ERK)1/2 was traditionally used as a readout of signaling of G protein-coupled receptors (GPCRs) *via* arrestins, as opposed to conventional GPCR signaling *via* G proteins. Several recent studies using HEK293 cells where all G proteins were genetically ablated or inactivated, or both non-visual arrestins were knocked out, demonstrated that ERK1/2 phosphorylation requires G protein activity, but does not

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