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Title:	Constitutive Trafficking of metabotropic Glutamate Receptor 5 in HEK293 cells
Authors:	Trivedi, Rishi Raj (/jspui/browse?type=author&value=Trivedi%2C+Rishi+Raj)
Issue Date:	20-Jul-2012
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Abstract:	mGluR5b is a group 1 metabotropic glutamate receptor which belongs to the family of G-protein coupled receptors, responsible for mediating slower synaptic responses via second messenger pathway. mGluR5b present on the cell surface gets regulated by endocytosis which is a major component of either GPCR desensitization or resensitization or downregulation of the receptors. mGluR5b can get endocytosed in ligand-dependent as well as ligand independent (constitutive) manner. In this study, we have explored temporal regulation of the ligand-dependent and constitutive endocytosis pathways. Additionally we investigated the sub-cellular fate of the receptors subsequent to internalization. Our study suggests that mGluR5b enters into recycling compartment via constitutive endocytosis which is a slower process compared to ligand mediated endocytosis.
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