

Determination of the Cell Orientation Pathway and Receptor Complex Signals

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Abstract

Vertebrate proteins activate several distinct pathways. Intrinsic differences among ligands and Frizzled receptors, and the availability of pathway-specific co-receptors. A secreted glycoprotein, Cthrc1, is involved in selective activation of the planar cell polarity pathway by proteins. Cell-surface-anchored Cthrc1 bound to proteins, Frizzled proteins, and Ror2 and enhanced the interaction of proteins and Frizzled /Ror2 by forming the Cthrc1 - Frizzled /Ror2 complex. These results suggest that Cthrc1 is a Frizzled cofactor protein that selectively activates the Frizzled /PCP pathway by stabilizing ligand-receptor interaction.

Keywords:

Introduction

The planar cell polarity (PCP) pathway is a conserved signaling pathway that regulates the orientation of cells in the plane of the tissue. It is involved in the development of many tissues, including the brain, heart, and lung. The PCP pathway is a complex signaling pathway that involves the interaction of several proteins, including Frizzled (Fz), Dishevelled (Dsh), and Van Gogh (Vang).

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