

Trk receptor

Trk receptors are a family of [tyrosine kinases](#) that regulates synaptic strength and plasticity in the mammalian nervous system.

Trk receptors affect neuronal survival and differentiation through several signaling cascades. However, the activation of these receptors also has significant effects on functional properties of neurons.

The common ligands of trk receptors are neurotrophins, a family of growth factors critical to the functioning of the nervous system.

The binding of these molecules is highly specific. Each type of neurotrophin has different binding affinity toward its corresponding Trk receptor. The activation of Trk receptors by neurotrophin binding may lead to activation of signal cascades resulting in promoting survival and other functional regulation of cells.

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