

Phosphoinositide 3-kinase

Phosphatidylinositol-4,5-bisphosphate 3-kinase (also called phosphatidylinositide 3-kinases, phosphatidylinositol-3-kinases, PI 3-kinases, PI(3)Ks, PI-3Ks or by the HUGO official stem symbol for the gene family, PI3K(s)) are a family of enzymes involved in cellular functions such as cell growth, proliferation, differentiation, motility, survival and intracellular trafficking, which in turn are involved in cancer.

It plays a pivotal role in transmitting signals from cell surface receptors, such as growth factor receptors and cytokine receptors, to downstream signaling pathways that regulate important cellular functions.

see [PI3K/AKT pathway](#)

see [PI3K/AKT/mTOR pathway](#).

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