

HEDGEHOG SIGNALING PATHWAY

The Hedgehog (Hh) signaling pathway is integral to embryonic development and adult tissue maintenance. Defects in this pathway have devastating effects on human fetuses and are linked to cancer.

After secretion, Hh binds to Patched 1 (PTCH1) on the membrane of the target cell. In turn, PTCH1 alleviates its repression of Smoothened. SMO activity results in nuclear translocation of GLI transcription factors. These transcription factors then activate genes that promote proliferation.

Legend	
—————	Association
—————>	Directly Activates
----->	Indirectly Activates
—————	Inhibits

For more information or other pathways visit ptglab.com

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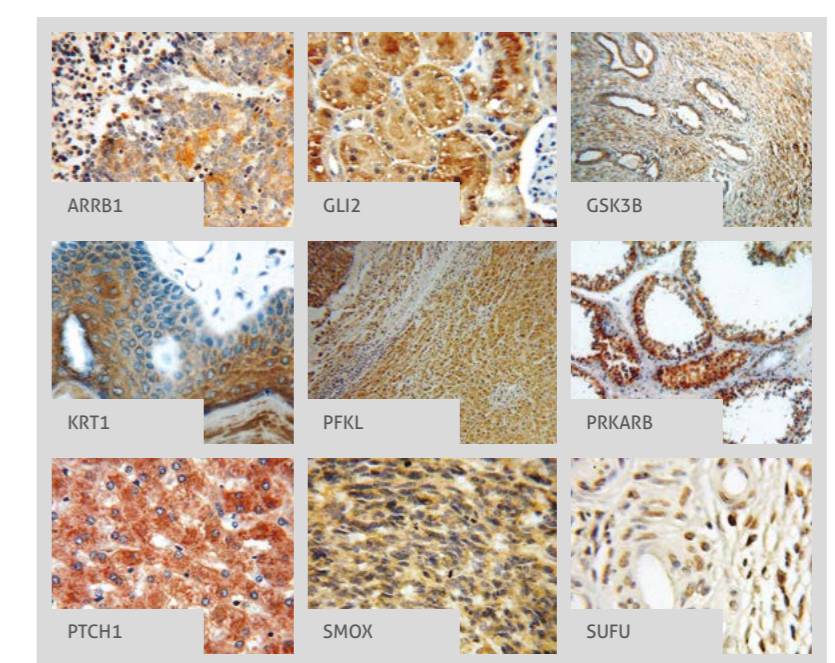
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