



This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Breast cancer	Phosphatidylinositol-5-phosphate 4-kinase type IIα (PIP4K2A); PIP4K2B	Mouse and cell culture studies suggest inhibiting PIP4K2A and PIP4K2B could help treat p53-breast cancer. In human breast cancer samples, deletion of <i>TP53</i> , which encodes p53, increased <i>PIP4K2B</i> levels compared with no alteration. In cultured <i>TP53</i> -deficient breast cancer cells and mouse xenografts, knockdown of both <i>PIP4K2A</i> and <i>PIP4K2B</i> decreased cancer cell proliferation and tumor formation compared with no alteration. In <i>Tp53</i> -deficient mice, homozygous deletion of <i>Pip4k2b</i> decreased tumor formation. Next steps could include studies to understand the relationship between PIP4K2A and PIP4K2B and glucose metabolism in tumors.	Patent and licensing status unavailable	Emerling, B.M. et al. Cell; published online Nov. 7, 2013; doi:10.1016/j.cell.2013.09.057 Contact: Lewis C. Cantley, Harvard Medical School, Boston, Mass. e-mail: lcantley@med.cornell.edu
		SciBX 6(48); doi:10.1038/scibx.2013.1377 Published online Dec. 19, 2013		