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Essential Gene Profiles in Breast, Pancreatic, and Ovarian Cancer Cells


A20 Ubiquitin Ligase–Mediated Polyubiquitination of RIP1 Inhibits Caspase-8 Cleavage and TRAIL-Induced Apoptosis in Glioblastoma


Revised title: Kinases in Epithelial Ovarian Cancer Regulating Receptor Tyrosine Repressor–Adaptor, Negatively and C. Hao

Caspase-8 Cleavage and Polyubiquitination of RIP1 Inhibits A20 Ubiquitin Ligase–Mediated TRAIL-Induced Apoptosis in Glioblastoma


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• NCATs Is Out of the Bag
• Putting Tumors to the Blood Test
• Immune Cells May Promote Skin Cancer
• Web Applications Aid Clinical Trial Recruitment

ON THE COVER

McKie and colleagues show that OPCML expression is silenced in multiple tumor types, including the vast majority of high-grade serous ovarian tumors, and correlates with poor prognosis. They further establish an extracellular mechanism of OPCML-mediated tumor suppression through negative regulation of a specific group of receptor tyrosine kinases (RTK). Through binding to RTK extracellular domains, OPCML induces RTK membrane redistribution, internalization, and degradation. Recombinant OPCML downregulated the same RTKs in vivo and inhibited ovarian cancer cell growth, suggesting that extracellular protein therapy may be useful in the treatment of OPCML-deficient tumors. For details, please see the article by McKie and colleagues on page 156.