



## Technology Brief: RhoB Variants for Suppression of Malignancy

Docket Number: 04B102

<p><b>Summary</b></p>	<ul style="list-style-type: none"> <li>• RhoB protein suppresses tumor growth and induces apoptosis. The signaling protein RhoB is reduced in certain tumors; hence restoration of RhoB activity may be an effective therapy.</li> <li>• Certain mutants of RhoB have been identified as maintaining certain tumor-suppressive functions of the wild type protein.</li> <li>• Mutants of RhoB introduced into tumor cells by gene therapy or other means may overcome the reduced activity of the endogenous RhoB and suppress tumor growth.</li> </ul>
<p><b>Features and Benefits</b></p>	<ul style="list-style-type: none"> <li>• Tumor types that might benefit from treatment by RhoB variants include lung, brain, pancreatic, prostate, and head and neck.</li> <li>• Mutants of RhoB may retain tumor suppressive activity while being resistant to inactivation by other signaling proteins.</li> <li>• RhoB variants may be combined with other interventions including radiation and chemotherapy.</li> <li>• Delivery of RhoB may be as polypeptides or encoding nucleic acids.</li> </ul>
<p><b>Stage of Development</b></p>	<p>Proof of concept in human prostate and pancreatic cancer cell lines.</p>
<p><b>Inventor</b></p>	<p>Dr. S. M. Sebti</p>
<p><b>Publications and Patents</b></p>	<p>Wang, D.A. &amp; Sebti, S.M. (2005) J. Biol. Chem., v. 280, p.19243 – 19249. Patent application pending.</p>

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