

## DESCRIPTION

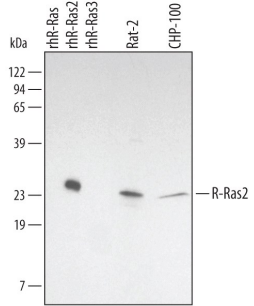
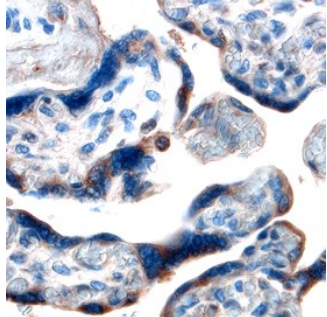
<b>Species Reactivity</b>	Human/Rat
<b>Specificity</b>	Detects human and rat TC21/R-Ras2 in Western blots. Does not detect recombinant human R-Ras or M-Ras (R-Ras3).
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TC21/R-Ras2 Met1-Phe204 Accession # P62070
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human/Rat TC21/R-Ras2 by Western Blot.</b> Western blot shows lysates of Rat-2 rat embryonic fibroblast cell line and CHP-100 human neuroblastoma cell line. PVDF membrane was probed with 2 µg/mL Goat Anti-Human/Rat TC21/R-Ras2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3605) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). For additional reference, recombinant human R-Ras, TC21/R-Ras2, and M-Ras/R-Ras3 (2 ng/lane) were included. A specific band for TC21/R-Ras2 was detected at approximately 24 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>TC21/R-Ras2 in Human Placenta.</b> TC21/R-Ras2 was detected in immersion fixed paraffin-embedded sections of normal human placenta using Goat Anti-Human/Rat TC21/R-Ras2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3605) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Teratocarcinoma oncogene 21 (TC21), also known as R-Ras2, is a small GTP-binding protein of the Ras superfamily of GTPases. TC21 comprises an R-Ras subfamily with fellow members R-Ras and M-Ras (R-Ras3). Overexpression and activating mutations of TC21 have been reported in several tumor tissues and cell lines.