

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects human and rat TC21/R-Ras2 in Western blots. Does not detect recombinant human R-Ras or M-Ras (R-Ras3).
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TC21/R-Ras2 Met1-Phe204 Accession # P62070
Formulation	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
Western Blot	2 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p> <p>Detection of Human/Rat TC21/R-Ras2 by Western Blot. 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>Immunohistochemistry</p> <p>TC21/R-Ras2 in Human Placenta. 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 & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.