

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TACC3 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TACC3 Glu689-Ile838 Accession # Q9Y6A5
<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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Simple Western</b>	10 µg/mL	See Below

**DATA**

**Western Blot**

**Detection of Human TACC3 by Western Blot.** Western blot shows lysates of Jurkat human acute T cell leukemia cell line and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TACC3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5720) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for TACC3 at approximately 130 kDa (as indicated). This experiment was conducted under reducing conditions and using *Immunoblot Buffer Group 2*.

**Simple Western**

**Detection of Human TACC3 by Simple Western™.** Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line and K562 human chronic myelogenous leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for TACC3 at approximately 149 kDa (as indicated) using 10 µg/mL of Goat Anti-Human TACC3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5720) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

**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**

Transforming acidic coiled-coil containing protein 3 (TACC3; also know as ERIC-1) is a 92-140 kDa member of the TACC family of transcriptional regulatory proteins. It is expressed in a variety of cell types, including Sertoli cells, endothelial cells, erythroid progenitors, and thyroid epithelium. When phosphorylated by Aurora A on Ser558, it stabilizes the mitotic spindle. It also interacts with nuclear histone acetyltransferases, promoting their positive effect on transcription. Human TACC3 is 838 amino acids (aa) in length and contains one poly-Serine region (aa 155-160) and a TACC coiled-coil domain (aa 637-837). There is one potential splice variant that shows a Lys substitution for aa 102-462. Over amino acids 689-838, human TACC3 shares 79% aa identity with mouse TACC3.