

DESCRIPTION

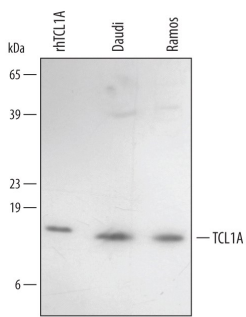
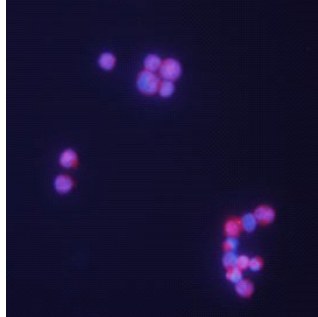
Species Reactivity	Human
Specificity	Detects human TCL1A in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TCL1A Met1-Asp114 Accession # P56279
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. 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	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human TCL1A by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line and Ramos human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL Goat Anti-Human TCL1A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4847) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). For additional reference, recombinant human TCL1A was included. A specific band for TCL1A was detected at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.</p>	<p>Immunocytochemistry</p>  <p>TCL1A in Daudi Human Burkitt's Lymphoma Cells. TCL1A was detected in immersion fixed Daudi human Burkitt's lymphoma cell line using 10 µg/mL Goat Anti-Human TCL1A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4847) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</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

TCL1A (T cell leukemia protein 1A; also p14 TCL1) is a 14 kDa member of the TCL1 family of proteins. It is expressed by thymocytes and activated T and B lymphocytes, and interacts with Akt kinase, promoting its activation and the subsequent deactivation of proapoptotic molecules. Human TCL1A is 114 amino acids (aa) in length. The amino acids Asp16 and Ile74 mediate Akt association, while Pro36 Leu37 Thr38 mediates TCL1A homodimerization. Full length human TCL1A is 50% aa identical to mouse TCL1A.