

### **Goat Anti-TCL1A Antibody**

Peptide-affinity purified goat antibody Catalog # AF2075a

### **Specification**

### **Goat Anti-TCL1A Antibody - Product Information**

Application WB, E
Primary Accession P56279

Other Accession NP 068801, 8115

Reactivity
Host
Clonality
Concentration
Conc

Isotype IgG
Calculated MW 13460

# **Goat Anti-TCL1A Antibody - Additional Information**

#### **Gene ID 8115**

#### **Other Names**

T-cell leukemia/lymphoma protein 1A, Oncogene TCL-1, Oncogene TCL1, Protein p14 TCL1, TCL1A, TCL1

#### **Dilution**

WB~~1:1000

E~~N/A

#### **Format**

0.5~mg~lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

# Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

Goat Anti-TCL1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### **Goat Anti-TCL1A Antibody - Protein Information**

#### Name TCL1A

**Synonyms TCL1** 

### **Function**



Enhances the phosphorylation and activation of AKT1, AKT2 and AKT3. Promotes nuclear translocation of AKT1. Enhances cell proliferation, stabilizes mitochondrial membrane potential and promotes cell survival.

#### **Cellular Location**

Cytoplasm. Nucleus. Microsome. Endoplasmic reticulum. Note=Microsomal fraction

#### **Tissue Location**

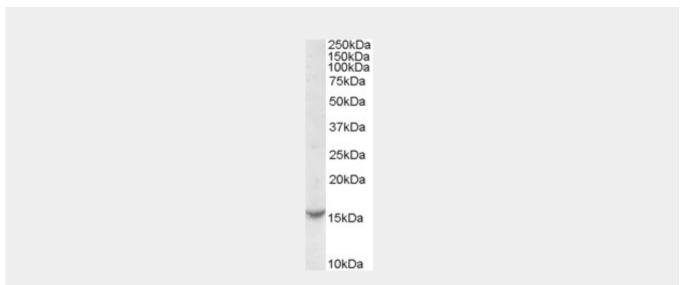
Restricted in the T-cell lineage to immature thymocytes and activated peripheral lymphocytes. Preferentially expressed early in T- and B-lymphocyte differentiation

# **Goat Anti-TCL1A Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# Goat Anti-TCL1A Antibody - Images

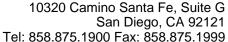


AF2075a (0.1  $\mu$ g/ml) staining of Jurkat Cell lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-TCL1A Antibody - Background

Overexpression of the TCL1 gene in humans has been implicated in the development of mature T cell leukemia, in which chromosomal rearrangements bring the TCL1 gene in close proximity to the T-cell antigen receptor (TCR)-alpha (MIM 186880) or TCR-beta (MIM 186930) regulatory elements (summarized by Virgilio et al., 1998 [PubMed 9520462]). In normal T cells TCL1 is expressed in CD4-/CD8- cells, but not in cells at later stages of differentiation. TCL1 functions as a coactivator of the cell survival kinase AKT (MIM 164730) (Laine et al., 2000 [PubMed 10983986]).

### **Goat Anti-TCL1A Antibody - References**





TCL1 protein expression in testicular germ cell tumors. Lau SK, et al. Am J Clin Pathol, 2010 May. PMID 20395523.

T-cell leukemia 1 expression in nodal Epstein-Barr virus-negative diffuse large B-cell lymphoma and primary mediastinal B-cell lymphoma. Gualco G, et al. Hum Pathol, 2010 Sep. PMID 20382409. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

CD5+CD23+ leukemic cell populations in TCL1 transgenic mice show significantly increased proliferation and Akt phosphorylation. Efanov A, et al. Leukemia, 2010 May. PMID 20357824. IGHV3-21 gene usage is associated with high TCL1 expression in chronic lymphocytic leukemia. Mansouri MR, et al. Eur J Haematol, 2010 Feb 1. PMID 19889012.