

Datasheet for ABIN1387618

anti-TAL1 antibody**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	TAL1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TAL1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Tal1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	TAL1
Alternative Name:	Tal1 (TAL1 Products)
Background:	Synonyms: bHLHa17, Class A basic helix-loop-helix protein 17, SCL antibody, Stem cell protein, T cell acute lymphocytic leukemia 1, T cell acute lymphocytic leukemia 1 protein, T cell leukemia/lymphoma 5 protein, T-cell acute lymphocytic leukemia protein 1, T-cell

Target Details

leukemia/lymphoma protein 5, Tal 1, Tal 1 product, TAL 1 protein, TAL-1, tal1, TAL1_HUMAN, TCL 5, TCL5.

Background: Activation of TAL1 characterizes up to 60 % of cases of human T cell acute lymphoblastic leukemia, making it the most frequent gain-of-function mutation observed in this disorder. TAL1 (also designated SCL) is a serine phosphoprotein and basic helix-loop-helix transcription factor known to regulate embryonic hematopoiesis. This transcription factor binds as a heterodimer with E2A and HEB/HTF4 to a nucleotide sequence motif termed the E-box. In addition, leukemogenesis is accelerated dramatically by transgenic co-expression of TAL1 and the catalytic subunit of casein kinase IIalpha, a serine/ threonine protein kinase known to modulate the activity of other bHLH transcription factors.

Pathways: [Stem Cell Maintenance](#)

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400
IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Niderla-Bielińska, Gula, Flaht-Zabost, Jankowska-Steifer, Czarnowska, Radomska-Leńiewska,

Ciszek, Ratajska: "3-D reconstruction and multiple marker analysis of mouse proepicardial endothelial cell population." in: **Microvascular research**, Vol. 102, pp. 54-69, (2015) ([PubMed](#)).