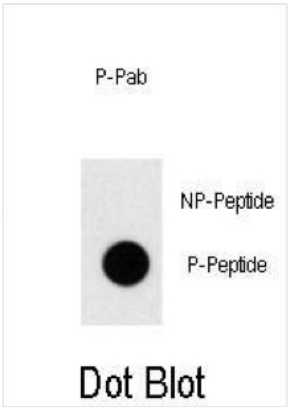
TAL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TAL1, Polyclonal Antibody
Full Product Name	TAL1, Phosphorylated (pT90) (TAL1, BHLHA17, SCL, TCL5, T-cell acute lymphocytic leukemia protein 1, Class A basic helix-loop-helix protein 17, Stem cell protein, T-cell leukemia/lymphoma protein 5) (MaxLight 405)
Product Gene Name	anti-TAL1 antibody
Product Synonym Names	TAL1; BHLHA17; SCL; TCL5; T-cell acute lymphocytic leukemia protein 1; Class A basic helix-loop-helix protein 17; Stem cell protein; T-cell leukemia/lymphoma protein 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human TAL1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,271 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (47681963..47695443, complement). Location: 1p32
OMIM	187040
3D Structure	ModBase 3D Structure for P17542
Immunogen	KLH-conjugated synthetic phosphopeptide mapping to a fragment of residues within amino acids surrounding pT90 of human TAL1, UniProt Accession #P17542.
Conjugate	MaxLight405
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-TAL1 antibody	Antibodies; Cancer Markers; Leukemia
Applications Tested/Suitable for anti-TAL1 antibody	Dot Blot (DB), FLISA
Application Notes for anti-TAL1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TAL1 antibody	TAL1 is implicated in the genesis of hemopoietic malignancies. It may play an important role in hemopoietic differentiation and serves as a positive regulator of erythroid differentiation.
Product References and Citations for anti-TAL1 antibody	Kassouf, M.T., Blood 112 (4), 1056-1067 (2008). Terme, J.M., J. Virol. 82 (16), 7913-7922 (2008). Brunet de la Grange, P., Stem Cells 26 (6), 1658-1662 (2008).

Other Notes	Small volumes of anti-TAL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TAL1 purchase	MBS6353517 is an antibody targeting TAL1. Also known as TAL1, Phosphorylated (pT90) (TAL1, BHLHA17, SCL, TCL5, T-cell acute lymphocytic leukemia protein 1, Class A basic helix-loop-helix protein 17, Stem cell protein, T-cell leukemia/lymphoma protein 5) (MaxLight 405). Reactive in Human. Host: Rabbit.



Dot Blot (DB) of anti-TAL1 antibody
Dot Blot analysis on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed using MBS6002077 at 0.5ug per ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAL1. It may not necessarily be applicable to this product.

NCBI GI #	4507363
NCBI GeneID	6886
NCBI Accession #	NP_003180.1
UniProt Primary Accession #	P17542
UniProt Secondary Accession #	D3DQ24
UniProt Related Accession #	P17542
GenBank Nucleotide #	NM_003189.2
NCBI Official Full Name	T-cell acute lymphocytic leukemia protein 1
NCBI Official Synonym Full Names	T-cell acute lymphocytic leukemia 1
NCBI Official Symbol	TAL1
NCBI Official Synonym Symbols	SCL; TCL5; tal-1; bHLHa17
UniProt Protein Name	T-cell acute lymphocytic leukemia protein 1
UniProt Synonym Protein Names	Class A basic helix-loop-helix protein 17; bHLHa17; Stem cell protein; T-cell leukemia/lymphoma protein 5
Protein Family	Probable transaldolase
UniProt Gene Name	TAL1
UniProt Synonym Gene Names	BHLHA17; SCL; TCL5; TAL-1; bHLHa17
UniProt Entry Name	TAL1_HUMAN
NCBI Protein Information	T-cell acute lymphocytic leukemia protein 1; tal-1 product; stem cell protein; T-cell leukemia/lymphoma protein 5; class A basic helix-loop-helix protein 17

UniProt Comments for TAL1	TAL1: a basic helix-loop-helix transcription. Regulates differentiation and survival during hemopoiesis. Implicated in the genesis of hemopoietic malignancies. It may play an important role in hemopoietic differentiation. Serves as a positive regulator of eryhtroid differentiation. Mutations are associated with T-cell leukemia and melanoma. Binds to the LIM domain containing protein Rhombotin-2. Protein type: DNA-binding; Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: 1p32 Cellular Component: transcription factor complex; histone deacetylase complex; nuclear chromatin; nucleus Molecular Function: protein binding; enzyme binding; protein heterodimerization activity; histone deacetylase binding; chromatin binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; erythrocyte maturation; cell fate commitment; positive regulation of chromatin assembly or disassembly; embryonic hemopoiesis; megakaryocyte differentiation; positive regulation of transcription, DNA-dependent; positive regulation of erythrocyte differentiation; astrocyte fate commitment; locomotory behavior; negative regulation of transcription from RNA polymerase II promoter; positive regulation of mitotic cell cycle; regulation of cell proliferation; regulation of transcription from RNA polymerase II promoter; positive regulation of protein complex assembly; positive regulation of cell division; erythrocyte differentiation; spinal cord association neuron differentiation; hemopoiesis; positive regulation of transcription from RNA polymerase II promoter; angiogenesis; platelet formation; basophil differentiation Disease: Leukemia, Acute Lymphoblastic
Research Articles on TAL1	**1.** Transcriptional regulators cooperate to establish or maintain primitive stem cell-like signatures in leukemic cells.
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