

Anti-SCL [1E6]

Catalogue number: 152650

Sub-type: Primary antibody

Images:

Contributor

Inventor:

Institute: A*STAR Accelerate Technologies Pte Ltd

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-SCL [1E6]

Alternate name:

Class: Monoclonal

Conjugate: Unconjugated

Description: Zebrafish has an immune system similar to human and mutant zebrafish generate models for human disease. "Stem Cell Leukemia" (SCL) was assigned to a gene involved in a t(1;14) translocation associated with an acute leukemia with early T-cell phenotype and myeloid differentiation potential. SCL is a transcription factor of the basic helix-loop-helix (bHLH) family and normally functions as a critical regulator of hematopoiesis. It is expressed in hematopoietic stem cells (HSCs), erythroid and megakaryocytic lineages but not in granulocyte/monocytes or lymphocytes. It is also expressed in the endothelium. SCL could be a major factor for the determination of hematopoietic and endothelial cell lineages. The study of SCL gene in zebrafish improves the understanding of genetic mechanisms involved in stem cell development and leukaemia generation. Most importantly, the key molecules involved in leukaemia could be identified and targeted by therapeutic drugs.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1

Reactivity: Zebrafish

Selectivity:

Host: Mouse

Immunogen: GST-SCL (N-terminal) fusion protein

Immunogen UNIPROT ID:

Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Stem Cell Leukemia protein

Target alternate names:

Target background: Zebrafish has an immune system similar to human and mutant zebrafish generate models for human disease. "Stem Cell Leukemia" (SCL) was assigned to a gene involved in a t(1;14) translocation associated with an acute leukemia with early T-cell phenotype and myeloid differentiation potential. SCL is a transcription factor of the basic helix-loop-helix (bHLH) family and normally functions as a critical regulator of hematopoiesis. It is expressed in hematopoietic stem cells (HSCs), erythroid and megakaryocytic lineages but not in granulocyte/monocytes or lymphocytes. It is also expressed in the endothelium. SCL could be a major factor for the determination of hematopoietic and endothelial cell lineages. The study of SCL gene in zebrafish improves the understanding of genetic mechanisms involved in stem cell development and leukaemia generation. Most importantly, the key molecules involved in leukaemia could be identified and targeted by therapeutic drugs.

Molecular weight:

Ic50:

Applications

Application: IF ; WB

Application notes:

Handling

Format: Liquid

Concentration: 1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: -15° C to -25° C

Shipping conditions: Shipping at 4° C

Related tools

Related tools: Anti-SCL [1C10]

References

References:

CancerTools.org