
Anti-Mouse AIRE Alexa Fluor[®] 488

Catalog Number: 53-5934

Also known as: Autoimmune Regulator

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse AIRE Alexa Fluor[®] 488
REF **Catalog Number:** 53-5934
Clone: 5H12
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2c, kappa



LOT



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
Batch Code: Refer to vial
Use By: Refer to vial

Description

This 5H12 monoclonal antibody reacts with mouse Autoimmune Regulator (AIRE). This 58-kDa transcription factor is highly expressed within the perinuclear region of mature medullary thymic epithelial cells (mTECs). However, expression of AIRE protein in the periphery remains unclear despite the detection of AIRE mRNA in the lymph node, lymphoid stromal cells, monocytes, and dendritic cells. Studies demonstrate that AIRE is involved in thymocyte development, in particular the regulation of tissue-specific antigen expression during negative selection. Other biological functions for AIRE include chemokine expression and antigen presentation.

The 5H12 antibody recognizes mouse AIRE isoforms 1 and 2.

Applications Reported

This 5H12 antibody has been reported for use in flow cytometric analysis and immunohistochemical staining of frozen tissue sections (IHC-F).

Applications Tested

This 5H12 antibody has been tested by immunohistochemistry on fixed, frozen mouse thymus at less than or equal to 10 ug/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest.

References

Anderson MS, Su MA. Aire and T cell development. *Curr Opin Immunol.* 2010; 23:1-9.

Hubert FX, Kinkel SA, Webster KE, Cannon P, Crewther PE, Proeitto AI, Wu L, Heath WR, Scott HS. A specific anti-Aire antibody reveals aire expression is restricted to medullary thymic epithelial cells and not expressed in periphery. *J Immunol.* 2008 Mar 15;180(6):3824-32. (**5H12**, FC, IHC-frozen, WB)

Rossi SW, Kim MY, Leibbrandt A, Parnell SM, Jenkinson WE, Glanville SH, McConnell FM, Scott HS, Penninger JM, Jenkinson EJ, Lane PJ, Anderson G. RANK signals from CD4(+)3(-) inducer cells regulate development of Aire-expressing epithelial cells in the thymic medulla. *J Exp Med.* 2007 Jun 11;204(6):1267-72. (**5H12**, IHC-frozen)

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein
00-4954 20X TBS Wash Buffer for IHC/ICC
00-4958 Fluoromount-G[™]

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