BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-AIRE/Aire 1 Antibody

Catalog Number: A00558

About AIRE

Transcriptional regulator that binds to DNA as a dimer or as a tetramer, but not as a monomer. Binds to G-doublets in an A/T-rich environment; the preferred motif is a tandem repeat of 5'-. ATTGGTTA-3' combined with a 5'-TTATTA-3' box. Binds to nucleosomes By similarity. Binds to chromatin and interacts selectively with histone H3 that is not methylated at 'Lys-4', not phosphorylated at 'Thr-3' and not methylated at 'Arg-2'. Functions as a sensor of histone H3 modifications that are important for the epigenetic regulation of gene expression. Functions as a transcriptional activator and promotes the expression of otherwise tissue-specific self-antigens in the thymus, which is important for self tolerance and the avoidance of autoimmune reactions.

Nagamine K., Nat. Genet. 17:393-398(1997).
Aaltonen J., Nat. Genet. 17:399-403(1997).
Hattori M., Nature 405:311-319(2000).

Overview

Product Name	Anti-AIRE/Aire 1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-AIRE/Aire 1 Antibody (Catalog # A00558). Tested in WB, IF applications. This antibody reacts with Human, Mouse.
Application	IF, WB
Clonality	Polyclonal
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O43918

Technical Details

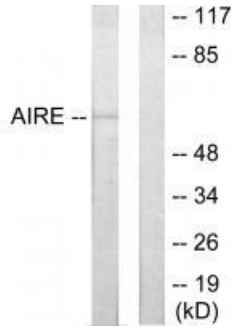
Immunogen	Synthesized peptide derived from internal of human AIRE.
Predicted Reactive Species	Canine, Monkey
Isotype	IgG
Form	Liquid

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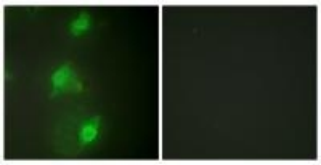
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blotting: 1:500~1:3000 Immunofluorescence: 1:100~1:500

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Anti-AIRE/Aire 1 Antibody (A00558) Images



Western blot analysis of extracts from 293 cells, using AIRE antibody A00558.



Immunofluorescence analysis of HeLa cells, using AIRE antibody A00558.

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