

ARG63485 anti-AIRE antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes AIRE
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	This antibody is expected to recognize isoforms 1 and 2 (NP_000374.1 and NP_000649.1 respectively).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	AIRE
Species	Human
Immunogen	C-QSMARPAAPFPS
Conjugation	Un-conjugated
Alternate Names	APECED; Autoimmune regulator; APS1; APSI; Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy protein; AIRE1; PGA1; APECED protein

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	IHC-P	2.5 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Tris/EDTA buffer (pH 9.0). WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

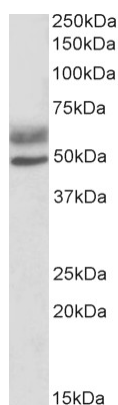
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

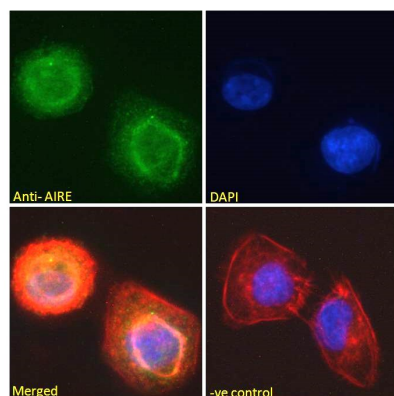
Database links	GeneID: 326 Human Swiss-port # O43918 Human
Background	This gene encodes a transcriptional regulator that forms nuclear bodies and interacts with the transcriptional coactivator CREB binding protein. The encoded protein plays an important role in immunity by regulating the expression of autoantigens and negative selection of autoreactive T-cells in the thymus. Mutations in this gene cause the rare autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy with candidiasis and ectodermal dystrophy (APECED). [provided by RefSeq, Jun 2012]
Research Area	Gene Regulation antibody; Immune System antibody
Calculated Mw	58 kDa
PTM	Phosphorylated. Phosphorylation could trigger oligomerization.

Images



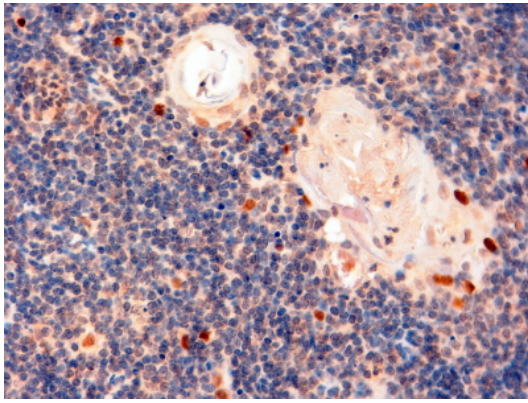
ARG63485 anti-AIRE antibody WB image

Western Blot: Human Lymph Node lysate (35 µg protein in RIPA buffer) stained with ARG63485 anti-AIRE (isoforms 1 and 2) antibody at 0.5 µg/ml dilution.



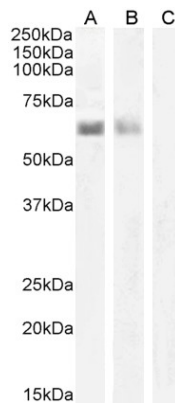
ARG63485 anti-AIRE antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U2OS cells permeabilized with 0.15% Triton. Cells were stained with ARG63485 anti-AIRE antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Phalloidin (red) for Actin filaments staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



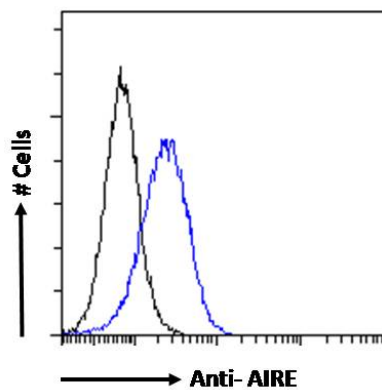
ARG63485 anti-AIRE antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Thymus. (Steamed antigen retrieval with Tris/EDTA buffer pH 9) stained with ARG63485 anti-AIRE (isoforms 1 and 2) antibody at 2 µg/ml dilution followed by HRP-staining.



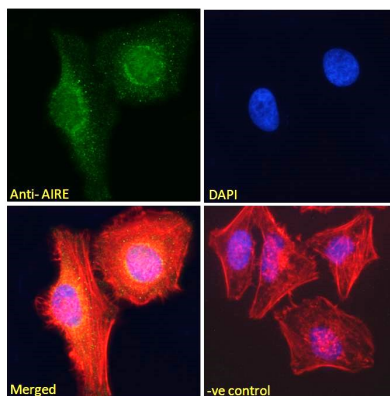
ARG63485 anti-AIRE antibody WB image

Western blot: 35 µg of Jurkat nucleus (A), Human spleen (B) and Human smooth muscle (C, negative control) lysates (in RIPA buffer) stained with ARG63485 anti-AIRE antibody at 1 µg/ml (A) and 2 µg/ml (B, C) dilutions and incubated at RT for 1 hour.



ARG63485 anti-AIRE antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed Jurkat cells permeabilized with 0.5% Triton. Cells were stained with ARG63485 anti-AIRE antibody (blue line) at 10 µg/ml dilution and overnight, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG63485 anti-AIRE antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG63485 anti-AIRE antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Phalloidin (red) for Actin filaments staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.