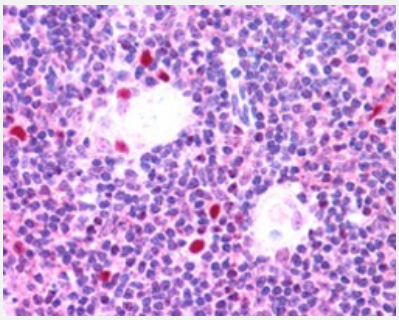
AIRE polyclonal antibody

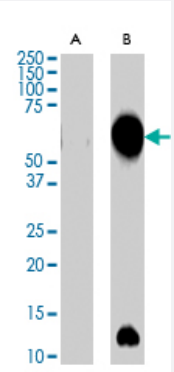
Catalog # PAB7040 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

AIRE polyclonal antibody (Cat # PAB7040) (2.5 ug/mL) staining of paraffin embedded human thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot (Cell lysate)

AIRE polyclonal antibody (Cat # PAB7040) (0.05 ug/mL) staining of HEK 293T (Bosc 23) lysates. Untransfected (Lane A) and transfected with human AIRE (lane B). Data kindly provided by Prof. Part Peterson, University of Tartu, Estonia.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of AIRE.
Immunogen	A synthetic peptide corresponding to human AIRE.
Sequence	C-KDVDLSQPRKGRKP
Host	Goat
Theoretical MW (kDa)	57.7, 36.5
Reactivity	Human

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Specificity	This antibody is expected to recognize isoform 1 (NP_000374.1) only.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:32000) Western Blot (0.5-1 ug/mL) Immunohistochemistry (2.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  AIRE polyclonal antibody (Cat # PAB7040) (2.5 ug/mL) staining of paraffin embedded human thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  AIRE polyclonal antibody (Cat # PAB7040) (0.05 ug/mL) staining of HEK 293T (Bosc 23) lysates. Untransfected (Lane A) and transfected with human AIRE (lane B). Data kindly provided by Prof. Part Peterson, University of Tartu, Estonia.

Gene Info — AIRE

Entrez GeneID	326
Protein Accession#	NP_000374.1
Gene Name	AIRE
Gene Alias	AIRE1, APECED, APS1, APSI, PGA1

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Gene Description	autoimmune regulator
Omim ID	240300 607358
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transcriptional regulator that forms nuclear bodies and interacts with the transcriptional coactivator CBP. At least three splice variant mRNAs products have been described including one which results in a premature stop codon and a transcript predicted to be a candidate for nuclear-mediated decay (NMD). Defects in this gene cause the rare autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy (APECED). [provided by RefSeq
Other Designations	autoimmune polyendocrinopathy candidiasis ectodermal dystrophy

Publication Reference

- Alteration of intra-pancreatic target-organ specificity by abrogation of Aire in NOD mice.

  Niki S, Oshikawa K, Mouri Y, Hirota F, Matsushima A, Yano M, Han H, Bando Y, Izumi K, Matsumoto M, Nakayama KI, Kuroda N, Matsumoto M.

  The Journal of Clinical Investigation 2006 May; 116(5):1292.

  Application: IF, IHC, Mouse, Mouse thymus

Pathway

- Primary immunodeficiency
- Ubiquitin mediated proteolysis

Disease

- Addison Disease
- Alopecia Areata
- Autoimmune Diseases
- Autoimmune polyglandular syndrome
- Candidiasis
- Diabetes Mellitus

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- Genetic Predisposition to Disease
- Graves Disease
- Hepatitis
- Hypercholesterolemia
- Hypoparathyroidism
- Melanoma
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Polyendocrinopathies
- Puberty
- Scleroderma
- Skin Diseases
- Syndrome
- Thrombophilia
- Thyroiditis
- Tobacco Use Disorder
- Vitiligo

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