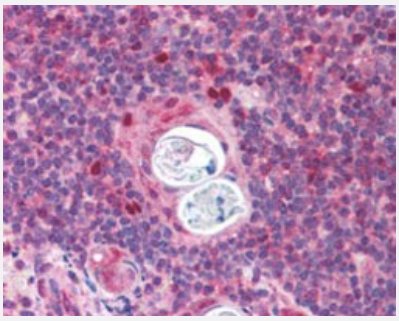
AIRE polyclonal antibody

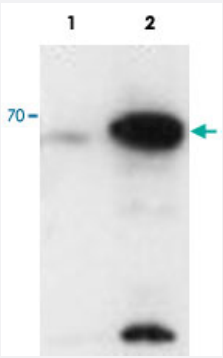
Catalog # PAB6198 Size 100 ug

Applications



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

AIRE polyclonal antibody (Cat # PAB6198) staining (2.5 ug/mL) of paraffin embedded human thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot (Transfected lysate)

AIRE polyclonal antibody (Cat # PAB6198) staining (0.01 ug/mL) of HEK293 cell lysate untransfected (lane 1) and transfected with human AIRE (lane 2) . 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-QSMARPAAPFPS
Host	Goat
Theoretical MW (kDa)	57.7, 36.5
Reactivity	Human

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Specificity	This antibody is expected to recognize isoforms 1 and 2 (NP_000374.1 and NP_000649.1 respecively).
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 (0.01-0.03 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 should be handled by trained staff only.

Applications

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

  AIRE polyclonal antibody (Cat # PAB6198) staining (2.5 ug/mL) of paraffin embedded human thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

- Enzyme-linked Immunoabsorbent Assay

- ChIP

- Western Blot (Transfected lysate)

  AIRE polyclonal antibody (Cat # PAB6198) staining (0.01 ug/mL) of HEK293 cell lysate untransfected (lane 1) and transfected with human AIRE (lane 2) .
  Data kindly provided by Prof. Part Peterson, University of Tartu, Estonia.

Gene Info — AIRE

Entrez GeneID	326
Protein Accession#	NP_000374.1;NP_000649.1

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Gene Name	AIRE
Gene Alias	AIRE1, APECED, APS1, APSI, PGA1
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

- The autoimmune regulator (AIRE) is a DNA-binding protein.

  Kumar PG, Laloraya M, Wang CY, Ruan QG, Davoodi-Semiromi A, Kao KJ, She JX.

  J Biol Chem 2001 Aug; 276(44):41357.

  Application: IP, KA, WB, Mouse, Mouse thymus, Recombinant proteins

Pathway

- Primary immunodeficiency
- Ubiquitin mediated proteolysis

Disease

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

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- Diabetes Mellitus
- 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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