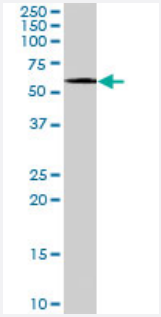
AIRE polyclonal antibody

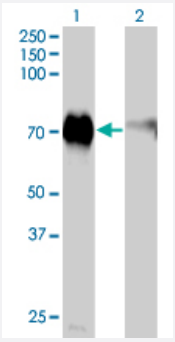
Catalog # PAB7187 Size 100 ug

Applications



Western Blot (Tissue lysate)

AIRE polyclonal antibody (Cat # PAB7187) (0.3 ug/mL) staining of human spleen lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

AIRE polyclonal antibody (Cat # PAB7187) staining (0.05 ug/mL) of HEK293 cell lysates. Transfected with human AIRE (lane 1) and untransfected (Lane2). 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-KAKPPKKPESSAEQ
Host	Goat
Theoretical MW (kDa)	57.7, 36.5
Reactivity	Human, Mouse
Form	Liquid

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Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:64000) Western Blot (0.3-1 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

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Tissue lysate)

  AIRE polyclonal antibody (Cat # PAB7187) (0.3 ug/mL) staining of human spleen lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.
- Western Blot (Transfected lysate)

  AIRE polyclonal antibody (Cat # PAB7187) staining (0.05 ug/mL) of HEK293 cell lysates. Transfected with human AIRE (lane 1) and untransfected (Lane2). 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
Gene Name	AIRE
Gene Alias	AIRE1, APECED, APS1, APSI, PGA1
Gene Description	autoimmune regulator
Omim ID	240300 607358
Gene Ontology	Hyperlink

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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
- Genetic Predisposition to Disease
- Graves Disease
- Hepatitis

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- 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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