

## Product datasheet for **AP08253PU-N**

### **AIRE (102-115) Goat Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/32000. <b>Immunohistochemistry on Paraffin Sections:</b> 2.5 µg/ml. <b>Western Blot:</b> 0.5 - 1 µg/ml.
Reactivity:	Canine, Human, Rat, Equine, Hamster
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to the Internal region of Human AIRE
Specificity:	This antibody recognizes Internal region of Apeced Protein (AIRE).
Formulation:	Tris Saline, pH 7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	autoimmune regulator
Database Link:	<a href="#">Entrez Gene 326 Human</a> <a href="#">O43918</a>



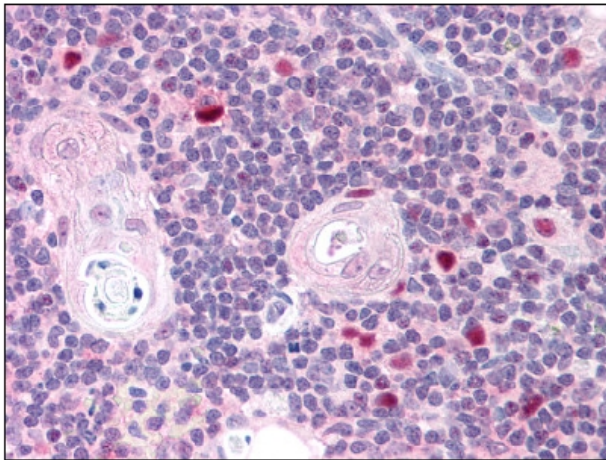
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**Background:**

AIRE is a transcriptional regulator that is thought to be important in controlling tissue-specific expression of genes in the thymus. The precise function of the protein is not well defined. It contains zinc finger motifs and isoform 1 is localized to both the nucleus and cytoplasm. Three splice variant mRNAs products have been described. The longer AIRE1 mRNA appears to be more abundant and includes exons 1 through 14. Splice variant AIRE2 includes a portion of the non-coding region of exon 1, an alternatively spliced longer exon 8, plus exons 9 through 14. Variant AIRE3 includes the same exon 1-8-9 sequences as found in AIRE2 but utilizes additional alternative splicing in exon 10 that shifts the reading frame such that a stop codon in exon 12 is utilized. The resulting protein products of these splice variants differ significantly. Defects in this gene cause the autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy (APECED).

**Synonyms:**

Autoimmune regulator

**Product images:**

Thymus: Formalin-Fixed Paraffin-Embedded (FFPE)