

For Research Use Only

# AIRE Polyclonal antibody

Catalog Number: 22517-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 22517-1-AP	<b>GenBank Accession Number:</b> BC137270	<b>Purification Method:</b> Antigen Affinity purified
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop and 273 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 326	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> autoimmune regulator	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 545 aa, 58 kDa	
<b>Immunogen Catalog Number:</b> AG18249	<b>Observed MW:</b> 58-69 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : L02 cells, human plasma tissue, human spleen tissue, mouse thymus tissue, U-937 cells
<b>Cited Applications:</b> IF, WB	<b>IHC :</b> human thymus tissue,
<b>Species Specificity:</b> human, mouse	<b>IF :</b> HeLa cells,
<b>Cited Species:</b> human, mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The function of the protein is not well defined, however it contains zinc finger motifs suggestive of a transcription factor. The protein (isoform 1) is localized to both the nucleus and cytoplasm. Three splice variant mRNAs products have been described [1]. 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhongwei Xin	36115836	Nat Commun	IF
Yoshihiko Tomofuji	32601470	Nat Immunol	WB
H M Du	31238861	Biochemistry (Mosc)	WB

## Storage

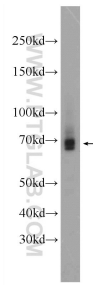
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

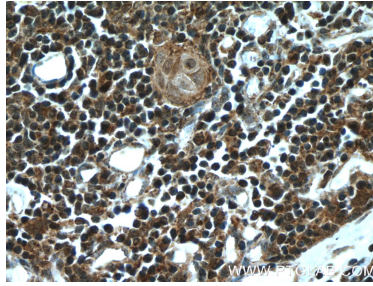
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
W: ptglab.com

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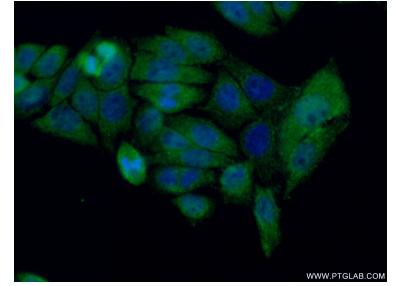
## Selected Validation Data



L02 cells were subjected to SDS PAGE followed by western blot with 22517-1-AP (AIRE Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thymus tissue slide using 22517-1-AP (AIRE Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 22517-1-AP (AIRE antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).