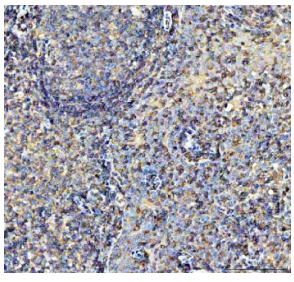
AIRE Antibody (R32465)

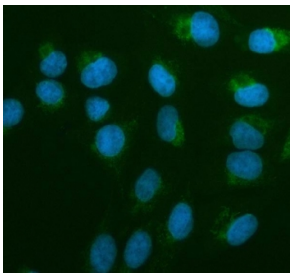
Catalog No.	Formulation	Size
R32465	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

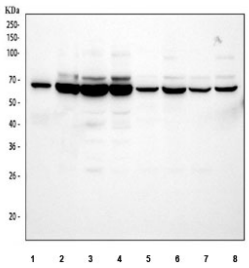
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O43918
Localization	Cytoplasm, Nucleus
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This AIRE antibody is available for research use only.



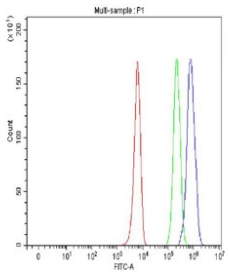
IHC staining of FFPE human tonsil tissue with AIRE antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human U-2 OS cells with AIRE antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human U937, 2) human RT4, 3) human Jurkat, 4) human K562, 5) rat spleen, 6) rat thymus, 7) mouse spleen and 8) mouse thymus tissue lysate with AIRE antibody. Predicted molecular weight ~58 kDa.



Flow cytometry testing of fixed and permeabilized human K562 cells with AIRE antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AIRE antibody.

Description

The autoimmune regulator (AIRE) is a protein that in humans is encoded by the AIRE gene. This gene encodes a transcriptional regulator that forms nuclear bodies and interacts with the transcriptional coactivator CREB binding protein. The encoded protein plays an important role in immunity by regulating the expression of autoantigens and negative selection of autoreactive T-cells in the thymus. Mutations in this gene cause the rare autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy with candidiasis and ectodermal dystrophy (APECED).

Application Notes

Optimal dilution of the AIRE antibody should be determined by the researcher.

Immunogen

Amino acids M1-K120 from the human protein were used as the immunogen for the AIRE antibody.

Storage

Prior to reconstitution, store at 4oC. After reconstitution, the AIRE antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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