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EB05507 - Goat Anti-AIRE Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: AIRE, autoimmune regulator (automimmune polyendocrinopathy candidiasis ectodermal dystrophy), APS1, APSI, PGA1, APECED, AIRE protein, autoimmune regulator (APECED protein), autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy), autoimmune regulator, AIRE1, OTTHUMP00000109529, autoimmune polyendocrinopathy candidiasis ectodermal dystrophy
Official Symbol: AIRE
Accession Number(s): NP_000374.1
Human GeneID(s): 326

Immunogen

Peptide with sequence C-QSMARPAAPFPS, from the C Terminus of the protein sequence according to NP_000374.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

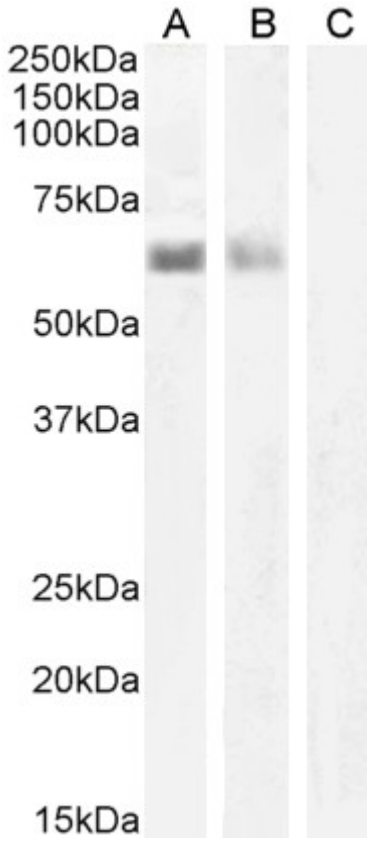
Peptide ELISA: antibody detection limit dilution 1:128000.
Western blot: Preliminary testing showed an approx 60kDa band in nuclear lysates of cell line Jurkat and in Human Spleen lysates (calculated MW of 57.7kDa according to NP_000374.1). Recommended concentration: 1-2µg/ml. Primary incubation 1 hour at room temperature. **Negative Control:** Human Smooth Muscle lysate. This product has been successfully used in Western blot by an anonymous customer on HEK293 cell lysate.
IHC: In paraffin embedded Human Thymic medula shows staining of select nuclei. Recommended concentration: 2.5µg/ml.

Immunofluorescence: Strong expression of the protein seen in the nucleoplasm and nuclear membranes of U2OS and HeLa cells. Recommended concentration: 10µg/ml.

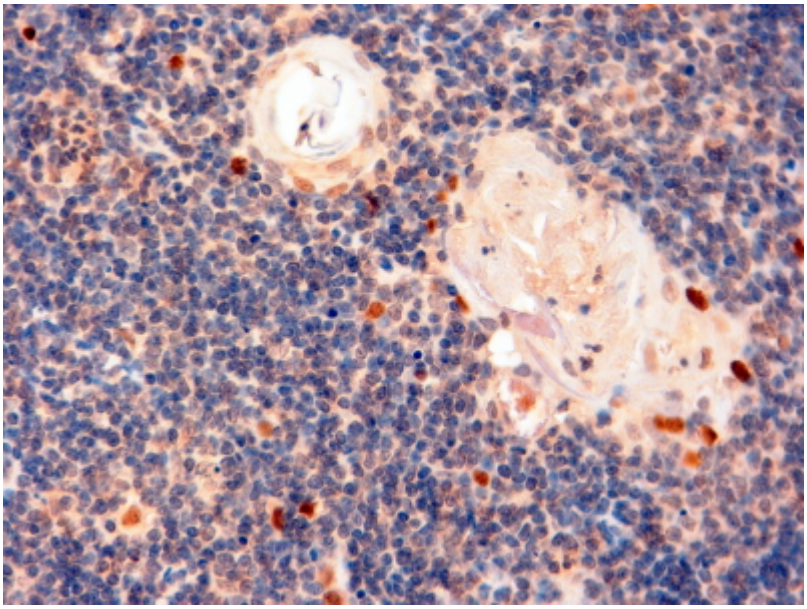
Flow Cytometry: Flow cytometric analysis of Jurkat cells. Recommended concentration: 10ug/ml.

Species Reactivity

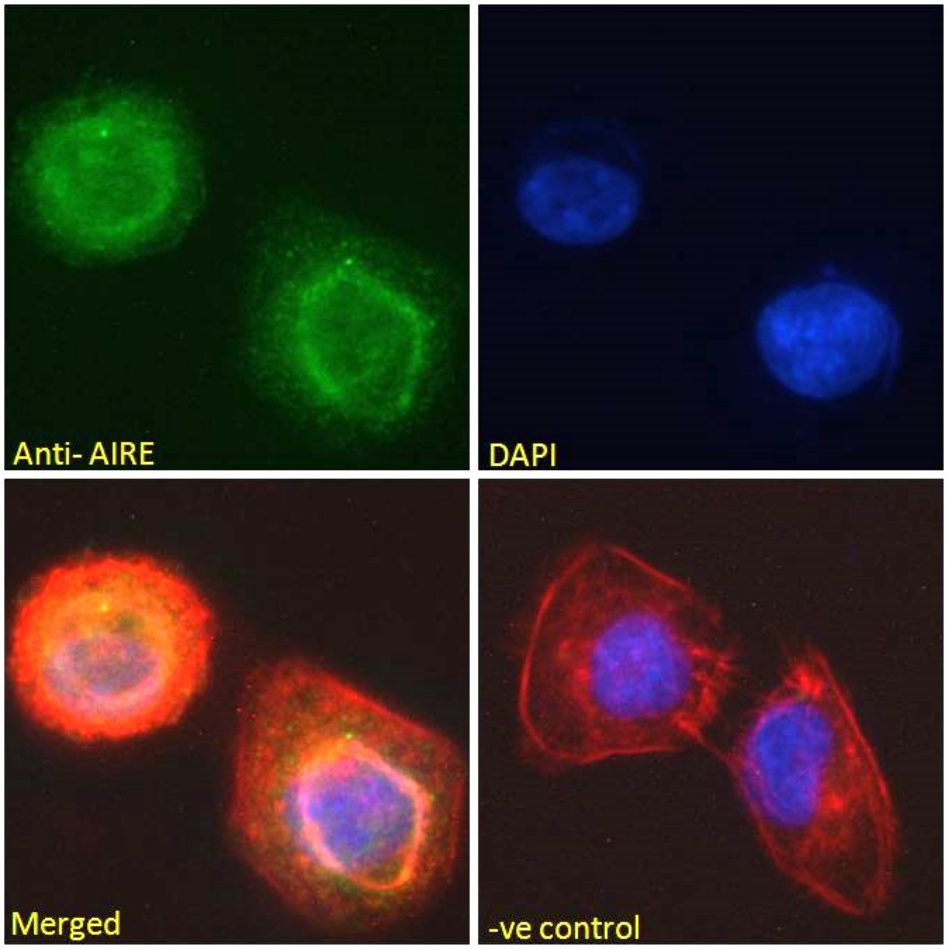
Tested: Human
Expected from sequence similarity: Human



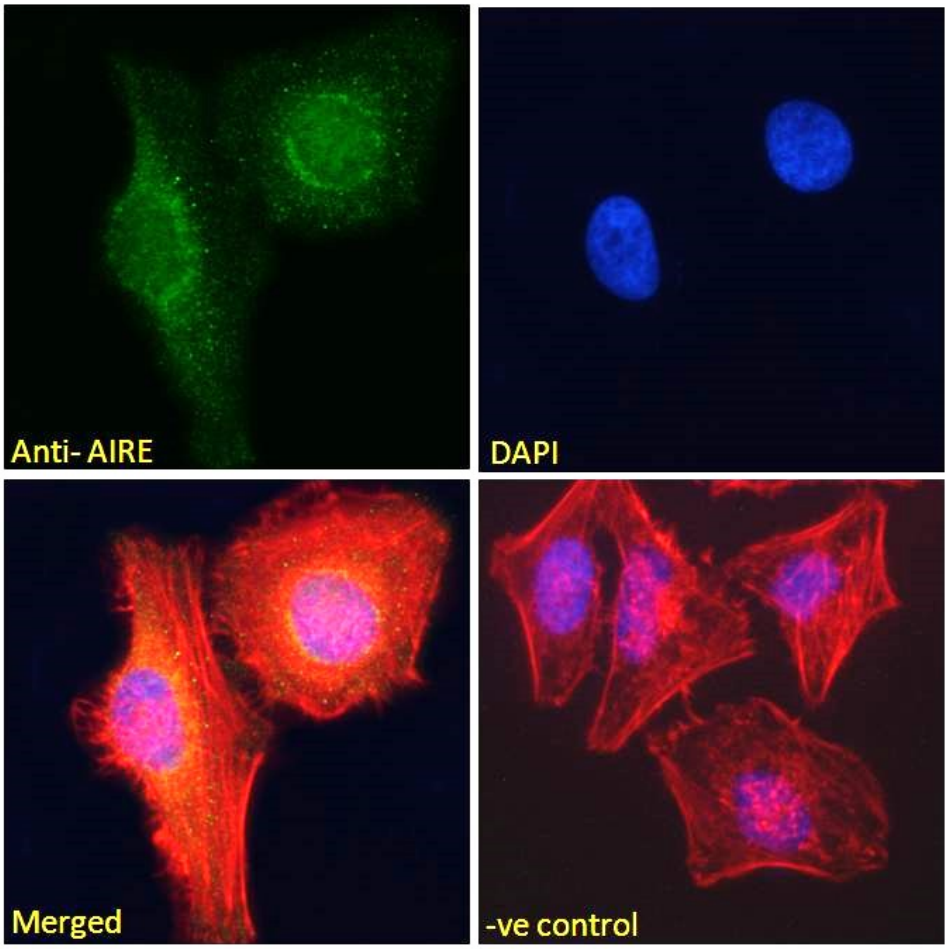
EB05507 (1µg/ml) staining of nuclear Jurkat cell (A), (2ug/ml) Human Spleen (B) and negative control Human Smooth Muscle (C) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



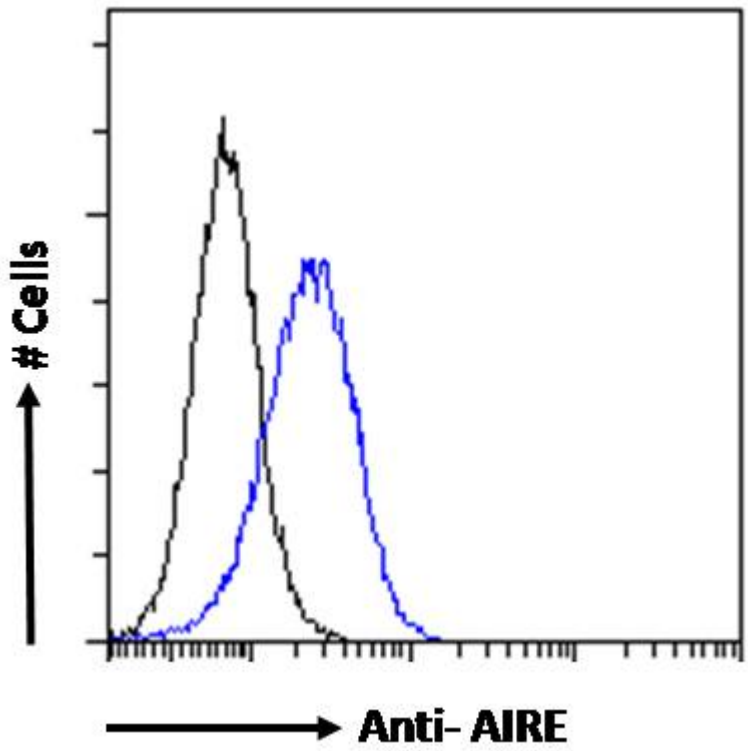
EB05507 (2µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.



EB05507 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nucleoplasm and nuclear membrane staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB05507 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nucleoplasm and nuclear membrane staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB05507 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation overnight (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.