

# Product Datasheet

## Autoimmune Regulator/AIRE Antibody NB100-1063

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB100-1063****Autoimmune Regulator/AIRE Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

<b>Product Description</b>	
<b>Host</b>	Goat
<b>Gene ID</b>	326
<b>Gene Symbol</b>	AIRE
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	This antibody is expected to recognize isoforms 1 and 2 (NP_000374.1 and NP_000649.1 respectively).
<b>Immunogen</b>	Peptide with sequence C-QSMARPAAPFPS corresponding to C-Terminus according to NP_000374.1, NP_000649.1.

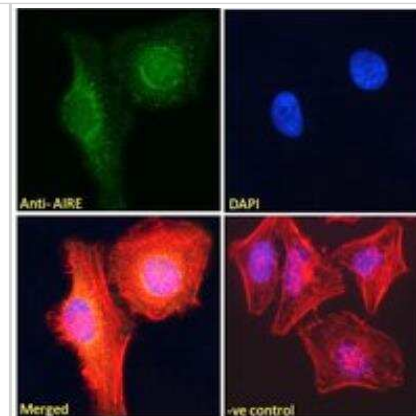
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 1 - 2 ug/mL, Flow Cytometry 10 ug/mL, Immunohistochemistry 2.5 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 2.5 ug/mL, Peptide ELISA Detection limit 1:128000
<b>Application Notes</b>	ChIP: A customer has reported successful usage (no data). WB: Approx. 60 kDa band observed in human lymph node and human spleen lysates (calculated MW of 57.7 kDa band according to NP_000374.1). An additional band of unknown identity was also consistently observed at 48 kDa. This band was successfully blocked by incubation with the immunizing peptide.

**Images**

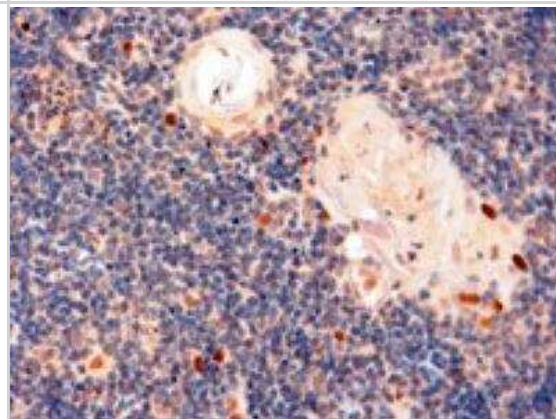
Western Blot: Autoimmune Regulator/AIRE Antibody [NB100-1063] - Staining of nuclear Jurkat cell with antibody at 1 ug/mL (A), Human Spleen with antibody at 2 ug/mL (B) and negative control Human Smooth Muscle (C) lysate (35 ug protein in RIPA buffer). Detected by chemiluminescence.



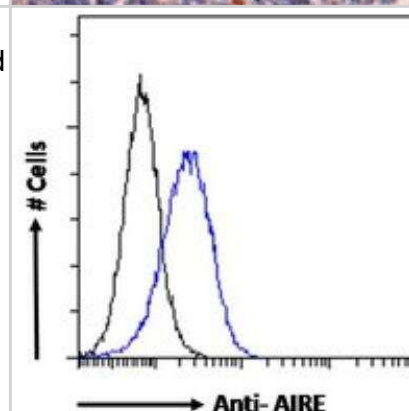
**Immunocytochemistry/Immunofluorescence: Autoimmune Regulator/AIRE Antibody [NB100-1063]** - Analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing nucleoplasm and nuclear membrane staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



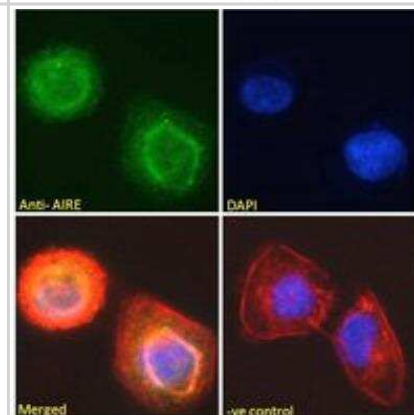
**Immunohistochemistry-Paraffin: Autoimmune Regulator/AIRE Antibody [NB100-1063]** - Antibody (2 ug/mL) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.



**Flow Cytometry: Autoimmune Regulator/AIRE Antibody [NB100-1063]** - Analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation overnight (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



**Immunocytochemistry/Immunofluorescence: Autoimmune Regulator/AIRE Antibody [NB100-1063]** - Analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/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 (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



## Publications

Kumar PG, Laloraya M, Wang CY et al. The autoimmune regulator (AIRE) is a DNA-binding protein. J Biol Chem 2001-11-02 [PMID: 11533054]



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HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
7268-CT-100	CTLA-4 [Unconjugated]

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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