abcam

Product datasheet

Anti-AIRE antibody ab65040

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概述

产品名称	Anti-AIRE抗体
描述	**兔多克隆抗体**to AIRE
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, WB
种属反应性	**与反应:** Human **预测可用于:** Mouse
免疫原	Synthetic peptide: KGRKPPAVPK ALVPPPRLPT KRKASEEARA AAPAALTPRG , corresponding to internal sequence amino acids 111-150 of Human AIRE Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	WB: 293 cell extracts. IF: HeLa cells.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride Without Mg2+ and Ca2+
纯度	Immunogen affinity purified
纯化说明	ab65040 was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
克隆	**多克隆**

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab65040于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

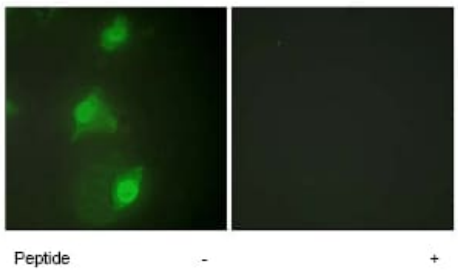
应用	Ab评论	说明
ICC/IF		1/500 - 1/1000.
WB		1/500 - 1/1000. Detects a band of approximately 65 kDa (predicted molecular weight: 58 kDa).

靶标

功能	Transcriptional regulator that binds to DNA as a dimer or as a tetramer, but not as a monomer. Binds to G-doublets in an A/T-rich environment; the preferred motif is a tandem repeat of 5'-. ATTGGTTA-3' combined with a 5'-TTATTA-3' box. Binds to nucleosomes (By similarity). Binds to chromatin and interacts selectively with histone H3 that is not methylated at 'Lys-4', not phosphorylated at 'Thr-3' and not methylated at 'Arg-2'. Functions as a sensor of histone H3 modifications that are important for the epigenetic regulation of gene expression. Functions as a transcriptional activator and promotes the expression of otherwise tissue-specific self-antigens in the thymus, which is important for self tolerance and the avoidance of autoimmune reactions.
组织特异性	Widely expressed. Expressed at higher level in thymus (medullary epithelial cells and monocyte-dendritic cells), pancreas, adrenal cortex and testis. Expressed at lower level in the spleen, fetal liver and lymph nodes. Isoform 2 and isoform 3 seem to be less frequently expressed than isoform 1, if at all.
疾病相关	Defects in AIRE are a cause of autoimmune poly-endocrinopathy candidiasis ectodermal dystrophy (APECED) [MIM:240300]; also known as autoimmune polyglandular syndrome type I (APS-1). APECED is an autosomal recessive disease characterized by: (1) autoimmune polyendocrinopathies: hypoparathyroidism, adrenocortical failure, IDDM, gonadal failure, hypothyroidism, pernicious anemia, and hepatitis; (2) chronic mucocutaneous candidiasis; (3) ectodermal dystrophies: vitiligo, alopecia, keratopathy, dystrophy of dental enamel, nails and tympanic membranes. In addition, a high proportion of patients develop squamous cell carcinoma of the oral mucosa. The disease is reported worldwide but is exceptionally prevalent among the Finnish population (incidence 1:25000) and the Iranian jews (incidence 1:9000). Note=Most of the mutations alter the nucleus-cytoplasm distribution of AIRE and disturb its association with nuclear dots and cytoplasmic filaments. Most of the mutations also decrease transactivation of the protein. The HSR domain is responsible for the homomultimerization activity of AIRE. All the missense mutations of the HSR and the SAND domains decrease this activity, but those in other domains do not. The AIRE protein is present in soluble high-molecular-weight complexes. Mutations in the HSR domain and deletion of PHD zinc fingers disturb the formation of these complexes.
序列相似性	Contains 1 HSR domain. Contains 2 PHD-type zinc fingers. Contains 1 SAND domain.
结构域	The L-X-X-L-L repeats may be implicated in binding to nuclear receptors.

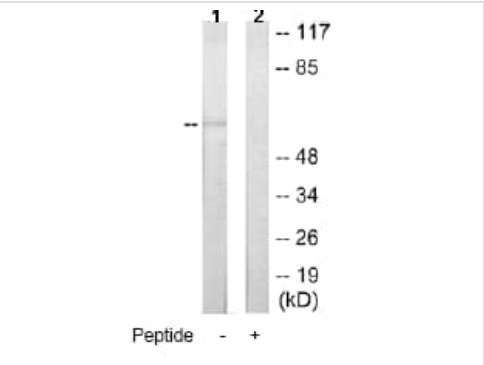
	The HSR domain is required for localization on tubular structures (N-terminal part) and for homodimerization. Interacts via the first PHD domain with the N-terminus of histone H3 that is not methylated at 'Lys-4'. Disruption of the first PHD domain has been shown to lead to reduced transcriptional activity and to localization of the protein mainly in the cytoplasm in small granules. While the PHD zinc fingers are necessary for the transactivation capacity of the protein, other regions also modulate this function.
翻译后修饰	Phosphorylated. Phosphorylation could trigger oligomerization.
细胞定位	Nucleus. Cytoplasm. Associated with tubular structures and in discrete nuclear dots resembling ND10 nuclear bodies. May shuttle between nucleus and cytoplasm.

图片



Immunocytochemistry/ Immunofluorescence - Anti-AIRE antibody (ab65040)

ab65040, at a 1/500 dilution, staining AIRE in HeLa cells by Immunofluorescence, in the absence or presence of the immunising peptide.



Western blot - Anti-AIRE antibody (ab65040)

All lanes : Anti-AIRE antibody (ab65040) at 1/500 dilution

Lane 1 : 293 cell extract
Lane 2 : 293 cell extract with immunising peptide at 10 µg

Lysates/proteins at 5 µg per lane.

Predicted band size: 58 kDa
Observed band size: 65 kDa

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