Recombinant Human AIRE Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AIRE-1696H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AIRE MS Standard C13 and N15-labeled recombinant protein (NP_000374) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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).
Molecular Mass	57.5 kDa
AA Sequence	MATDAALRRLLRLHRTEIAVAVDSAFPLLHALADHDVVPEDKFQETLHLKEKEGCPQ AFHALLSWLLTQDSTAILDFWRVLFKDYNLERYGRLQPILDSFPKDVDLSQPRKGRK PPAVPKALVPPPRLPTKRKASEEARAAAPAALTPRGTASPGSQLKAKPPKKPESSAE QQRLPLGNGIQTMSASVQRAVAMSSGDVPGARGAVEGILIQQVFESGGSKKCIQVG GEFYTPSKFEDSGSGKNKARSSSGPKPLVRAKGAQGAAPGGGEARLGQQGSVPA PLALPSDPQLHQKNEDECAVCRDGGELICCDGCPRAFHLACLSPPLREIPSGTWRC SSCLQATVQEVQPRAEEPRPQEPPVETPLPPGLRSAGEEVRGPPGEPLAGMDTTL

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	VYKHLPAPPSAAPLPGLDSSALHPLLCVGPEGQQNLAPGARCGVCGDGTDVLRCT HCAAAFHWRCHFPAGTSRPGTGLRCRSCSGDVTPAPVEGVLAPSPARLAPGPAKD DTASHEPALHRDDLESLLSEHTFDGILQWAIQSMARPAAPFPSTRTRPLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	AIRE autoimmune regulator [Homo sapiens (human)]
Official Symbol	AIRE
Synonyms	AIRE; autoimmune regulator; APECED, autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy); APS1; autoimmune polyendocrinopathy candidiasis ectodermal dystrophy; PGA1; autoimmune polyendocrinopathy candidiasis ectodermal dystrophy protein; APSI; AIRE1; APECED;
Gene ID	326
mRNA Refseq	NM_000383

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Protein Refseq	NP_000374
MIM	607358
UniProt ID	O43918

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