

Product datasheet for PH313497

AIRE (NM_000383) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AIRE MS Standard C13 and N15-labeled recombinant protein (NP_000374)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213497
Predicted MW:	57.5 kDa
Protein Sequence:	>RC213497 representing NM_000383 Red=Cloning site Green=Tags(s)

MATDAALRRLRLHRTEIAVAVDSAFPLLHALADHDVVPEDKFQETLHLKEKEGCPQAFHALLSWLLTQD
STAILDFWRVLFKDYNLERYGRLQPIILDSFPKDVLDLSQPRKGRKPPAVPKALVPPPRLPTKRKASEEARA
AAPAALTPRGTASPGSQLKAKPPKPESSAEQQLPLGNGIQTMSASVQRAVAMSSGDVPGARGAVEGIL
IQQVFESGGSKKCIQVGGEFYTPSKFEDSGSGKNKARSSGPKPLVRAKGAQGAAPGGGEARLGQQGSVP
APLALPSDPQLHQKNEDECAVCRDGGELICCDGCPRAFHLACLSPPLREIPSGTWRCSSCLQATVQEVQP
RAEPRPQEPVETPLPPGLRSAGEEVRGPPGEPLAGMDTTLVYKHL PAPP SAAPLPGLDSSALHPLL CV
GPEGQQLAPGARCGVCGDGTDLRCTHCAA AFHWRCHFAGTSRPGTGLRCRSCSGDVT PAVEGVLAP
SPARLAPGPAKDDTASHEPALHRDDLESLLEHTFDGILQWAIQSMARPAAPFPS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000374
RefSeq Size:	2252
RefSeq ORF:	1635



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Synonyms: AIRE1; APECED; APS1; APSI; PGA1

Locus ID: 326

UniProt ID: [O43918](#)

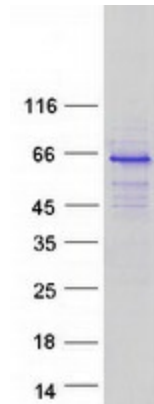
Cytogenetics: 21q22.3

Summary: 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). [provided by RefSeq, Jun 2012]

Protein Families: Druggable Genome

Protein Pathways: Primary immunodeficiency, Ubiquitin mediated proteolysis

Product images:



Coomassie blue staining of purified AIRE protein (Cat# [TP313497]). The protein was produced from HEK293T cells transfected with AIRE cDNA clone (Cat# [RC213497]) using MegaTran 2.0 (Cat# [TT210002]).