

Datasheet for ABIN7552136 AIRE Protein (AA 1-545) (His tag)



Overview

Quantity:	1 mg
Target:	AIRE
Protein Characteristics:	AA 1-545
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AIRE protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant AIRE Protein expressed in mammalian cells.
Sequence:	MATDAALRRL LRLHRTEIAV AVDSAFPLLH ALADHDVVPE DKFQETLHLK EKEGCPQAFH
	ALLSWLLTQD STAILDFWRV LFKDYNLERY GRLQPILDSF PKDVDLSQPR KGRKPPAVPK
	ALVPPPRLPT KRKASEEARA AAPAALTPRG TASPGSQLKA KPPKKPESSA EQQRLPLGNG
	IQTMSASVQR AVAMSSGDVP GARGAVEGIL IQQVFESGGS KKCIQVGGEF YTPSKFEDSG
	SGKNKARSSS GPKPLVRAKG AQGAAPGGGE ARLGQQGSVP APLALPSDPQ LHQKNEDECA
	VCRDGGELIC CDGCPRAFHL ACLSPPLREI PSGTWRCSSC LQATVQEVQP RAEEPRPQEP
	PVETPLPPGL RSAGEEVRGP PGEPLAGMDT TLVYKHLPAP PSAAPLPGLD SSALHPLLCV
	GPEGQQNLAP GARCGVCGDG TDVLRCTHCA AAFHWRCHFP AGTSRPGTGL RCRSCSGDVT
	PAPVEGVLAP SPARLAPGPA KDDTASHEPA LHRDDLESLL SEHTFDGILQ WAIQSMARPA APFPS
	Sequence without tag. The proposed Purification-Tag is based on experiences with the
	expression system, a different complexity of the protein could make another tag necessary.
	In case you have a special request, please contact us.

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Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:
	 Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	AIRE
Alternative Name:	AIRE (AIRE Products)
Background:	Autoimmune regulator (Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy
	protein) (APECED protein),FUNCTION: Transcription factor playing an essential role to promote
	self-tolerance in the thymus by regulating the expression of a wide array of self-antigens that
	have the commonality of being tissue-restricted in their expression pattern in the periphery,
	called tissue restricted antigens (TRA) (PubMed:26084028). 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. Mainly expressed by medullary thymic
	epithelial cells (mTECs), induces the expression of thousands of tissue-restricted proteins,

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	which are presented on major histocompatibility complex class I (MHC-I) and MHC-II molecules
	to developing T-cells percolating through the thymic medulla (PubMed:26084028). Also induces
	self-tolerance through other mechanisms such as the regulation of the mTEC differentiation
	program. Controls the medullary accumulation of thymic dendritic cells and the development of
	regulatory T-cell through the regulation of XCL1 expression. Regulates the production of CCR4
	and CCR7 ligands in medullary thymic epithelial cells and alters the coordinated maturation and
	migration of thymocytes. In thimic B-cells, allows the presentation of licensing-dependent
	endogenous self-anitgen for negative selection. In secondary lymphoid organs, induces
	functional inactivation of CD4(+) T-cells. Expressed by a distinct bone marrow-derived
	population, induces self-tolerance through a mechanism that does not require regulatory T-cells
	and is resitant to innate inflammatory stimuli (By similarity). {ECO:0000250 UniProtKB:Q9Z0E3,
	ECO:0000269 PubMed:11274163, ECO:0000269 PubMed:18292755,
	ECO:0000269 PubMed:26084028, ECO:0000305 PubMed:19302042,
	ECO:0000305 PubMed:26972725}.
Molecular Weight:	57.7 kDa
UniProt:	043918
Pathways:	Chromatin Binding
Application Details	
Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
	functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Expiry Date:

12 months

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