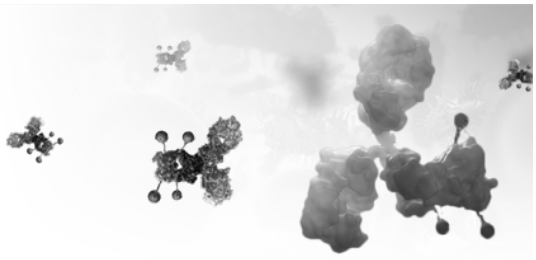

Human AIRE peptide (DAG-P0080)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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). [provided by RefSeq, Jun 2012]
Specificity	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 l
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 HSR domain.Contains 2 PHD-type zinc fingers.Contains 1 SAND domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	AIRE autoimmune regulator [Homo sapiens (human)]
Official Symbol	AIRE
Synonyms	AIRE; autoimmune regulator; APS1; APSI; PGA1; AIRE1; APECED; autoimmune

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	polyendocrinopathy candidiasis ectodermal dystrophy protein;
Entrez Gene ID	326
mRNA Refseq	NM_000383.3
Protein Refseq	NP_000374.1
UniProt ID	O43918
Chromosome Location	21q22.3
Pathway	Primary immunodeficiency, organism-specific biosystem; Primary immunodeficiency, conserved biosystem; Ubiquitin mediated proteolysis, organism-specific biosystem; Ubiquitin mediated proteolysis, conserved biosystem;
Function	chromatin binding; histone binding; identical protein binding; protein binding; transcription regulatory region DNA binding; translation regulator activity; zinc ion binding;

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