

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Autoimmune Regulator/AIRE in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Autoimmune Regulator/AIRE Ser476-Ser552 Accession # Q9Z0E3
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

AIRE (Autoimmune regulator; also APECED) is a 58-60 kDa transcriptional regulator that exhibits tight regulation of its expression. It is widely expressed in lymphoid organs, but is most pronounced in thymic medullary epithelium, where it induces the expression of organ specific antigens that are used to sequester and delete autoreactive lymphocytes. Mouse AIRE is 552 amino acids (aa) in length. It contains multiple domains, including an HSR domain with two LXXLL motifs (aa 1-106), an NLS (aa 114-134), one SAND domain (aa 182-282) and two PHD zinc-finger regions (aa 298-345; 434-475). AIRE will homodimerize and tetramerize. There are multiple potential isoforms that involve various combinations of deletions of aa 265-268, 368-426 and Lys296, plus a 42 aa substitution for aa 368-552. Over aa 476-552, mouse AIRE shares 91% and 65% aa identity with rat and human AIRE, respectively.

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