

## DESCRIPTION

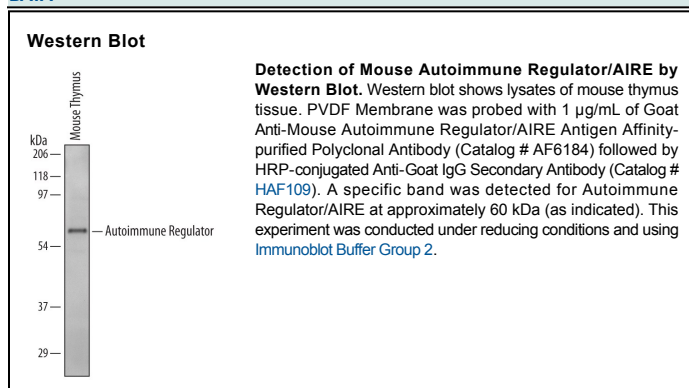
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Autoimmune Regulator/AIRE in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Autoimmune Regulator/AIRE Ser476-Ser552 Accession # Q9Z0E3
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.