

DESCRIPTION

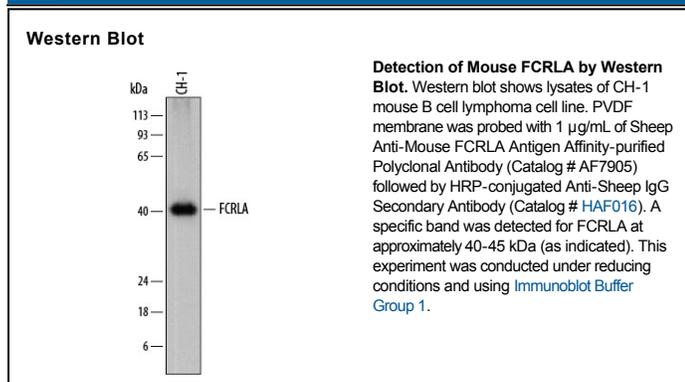
Species Reactivity	Mouse
Specificity	Detects mouse FCRLA in direct ELISAs and Western blots. In direct ELISA, less than 5% cross-reactivity with recombinant human FCRLA is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse FCRLA Lys221-Lys352 (Ile321Met) Accession # Q920A9
Formulation	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
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FCRLA (Fc Receptor-Like A; also known as FcRX and Fc receptor Homolog Expressed in B cells) is a 44 kDa intracellular member of the FcγRI class, FcR family, Immunoglobulin Superfamily of molecules. It is associated with B lineage cells, and has been identified in virtually all splenic B cells, peritoneal B1b and B2 B cells, and immature through mature bone marrow B cells. Not all cells show equal expression patterns. In the spleen, weak FCRLA expression occurs in naïve follicular and marginal zone B cells, and increases with activation state. FCRLA is suggested to act as an ER chaperone during antibody maturation, and is known to bind to IgM, IgA, and IgG prior to their secretion. Mouse FCRLA is synthesized as a 34 kDa, 322 amino acid (aa) precursor that contains a 30 aa signal sequence, two C2-type Ig-like domains (aa 80-169 and 182-26), and a C-terminal poly-Proline region (aa 289-294). Although there is no traditional ER retention signal, a viable substitute is assumed to exist at the N-terminus of the mature molecule. FCRLA is believed to exist naturally as a monomer; however, disulfide-linkage can occur during experimental manipulation. While four potential isoform variants are reported, it is unclear if any are actually expressed. One shows an Ala insertion after Ala28, a second shows an Alalle substitution for aa 20-22, a third contains that previous Alalle substitution coupled to a deletion of aa 90-115, while a fourth utilizes an alternative start site at Met62. Over aa 221-352, mouse FCRLA shares 68% and 55% aa sequence identity with rat and human FCRLA, respectively.