

Human FCRLB/FCRY Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4705

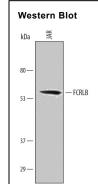
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human FCRLB/FCRY in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombina mouse (rm) FCRLB/FCRY is observed, and less than 1% cross-reactivity with recombinant human FCRN and rmFCRN is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human FCRLB/FCRY Ala18-Ser426 Accession # Q6BAA4		
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 either lyophilized or 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



Detection of Human FCRLB/FCRY by Western Blot. Western blot shows lysates of JAR human choriocarcinoma cell line. PVDF Membrane was probed with 1 µg/mL of Human FCRLB/FCRY Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4705) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for FCRLB/FCRY at approximately 57-60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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

- 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

FCRLB, also known as FCRL2, FCRY, and FREB2, is a 57-60 kDa protein with sequence homology to classical Fc receptors. There are at least six type 1 transmembrane FCRL proteins and two that lack transmembrane segments. Each family member contains between three and nine immunoglobulin-like domains. FCRL proteins are differentially expressed within the B cell lineage and can either promote or inhibit B cell proliferation and activation (1, 2). According to R&D Systems testing, FCRLB binds to purified human IgG with high affinity. Human FCRLB shares 82% and 85% amino acid sequence identity with mouse and rat FCRLB, respectively. It contains a putative signal peptide, three immunoglobulin-like domains, and a mucin-like stalk that is rich in Pro, Ser, and Thr residues (1 - 3). The stalk region also contains di-Leu motifs and an unpaired cysteine (1 - 3). Alternative splicing generates isoforms with deletions in the putative signal peptide and substitutions and/or truncations in the third Ig-like domain (3). When expressed in transfectants, FCRLB is not secreted but shows a diffuse intracellular localization (3, 4). FCRLB is expressed at a low level in placenta and in B lineage cells of the germinal center (3, 4). It is upregulated in B cells by BAFF and LPS (5). Among non-hematopoietic cells, FCRLB is expressed in fibroblasts, melanocytes, and melanoma (3, 5). It is preferentially expressed in nonproliferating cells and at the onset of apoptosis (4, 5).

References:

- 1. Davis, R.S. (2007) Annu. Rev. Immunol. 25:525.
- 2. Maltais, L.J. et al. (2006) Nat. Immunol. 7:431.
- 3. Chikaev, N.A. et al. (2005) Genomics 85:264.
- 4. Wilson, T.J. and M. Colonna (2005) Genes Immun. 6:341.
- 5. Masuda, K. et al. (2005) Gene 363:32.

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