# Fcrl5 (K-13): sc-46321



The Power to Question

## **BACKGROUND**

The Fc receptor homolog (FcRH) family of proteins are related to the classical Fc receptors (FcR) and belong to the immunoglobulin receptor superfamily. The proteins in the FcRH family (namely FcRH1-FcRH6) are type I transmembrane glycoproteins that are involved in immune system regulation and have immunoreceptor-tyrosine inhibitory motifs in their cytoplasmic domains. Fcrl5 (Fc receptor-like protein 5), also known as Fcrh3 (Fc receptor homolog 3), is a 596 amino acid single-pass type I membrane protein that is the mouse homolog of human FcRH3. Localized to the cell membrane and expressed in marginal zone B cells, Fcrl5 contains five Ig-like C2-type domains and is thought to function as an inhibitory coreceptor for B cells. Two isoforms of Fcrl5 exist due to alternative splicing events.

## **REFERENCES**

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- 7. Fayngerts, S.A., et al. 2007. Species-specific evolution of the FcR family in endothermic vertebrates. Immunogenetics 59: 493-506.
- Haga, C.L., et al. 2007. Fc receptor-like 5 inhibits B cell activation via SHP-1 tyrosine phosphatase recruitment. Proc. Natl. Acad. Sci. USA 104: 9770-9775.

# **CHROMOSOMAL LOCATION**

Genetic locus: Fcrl5 (mouse) mapping to 3 F1.

### SOURCE

Fcrl5 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Fcrl5 of mouse origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-46321 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **APPLICATIONS**

Fcrl5 (K-13) is recommended for detection of Fcrl5 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Fcrl5 siRNA (m): sc-45697.

Molecular Weight of Fcrl5: 67 kDa.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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