



FcRH5 (N-16): sc-46606

BACKGROUND

The multigene family of Fc receptor homologs (FcRHs) have variable numbers of extracellular immunoglobulin domains of five different subtypes. FcRH immunoregulatory potential is implicated by the presence of consensus tyrosine-based activation or inhibition motifs in their cytoplasmic tails. The protein products of the human and mouse FcRH5 genes, which are also designated Fc receptor-like protein 5, differ in that human FcRH5 comprises 977 amino acids, whereas mouse FcRH5 contains 582 amino acids.

REFERENCES

1. Davis, R.S., Wang, Y.H., Kubagawa, H. and Cooper, M.D. 2001. Identification of a family of Fc receptor homologs with preferential B cell expression. *Proc. Natl. Acad. Sci. USA* 98: 9772-9777.
2. Ehrhardt, G.R., Davis, R.S., Hsu, J.T., Leu, C.M., Ehrhardt, A. and Cooper, M.D. 2003. The inhibitory potential of Fc receptor homolog 4 on memory B cells. *Proc. Natl. Acad. Sci. USA* 100: 13489-13494.
3. Davis, R.S., Stephan, R.P., Chen, C.C., Dennis, G., Jr. and Cooper, M.D. 2004. Differential B cell expression of mouse Fc receptor homologs. *Int. Immunol.* 16: 1343-1353.
4. Davis, R.S., Ehrhardt, G.R., Leu, C.M., Hirano, M. and Cooper M.D. 2005. An extended family of Fc receptor relatives. *Eur. J. Immunol.* 35: 674-680.

CHROMOSOMAL LOCATION

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

SOURCE

FcRH5 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FcRH5 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-46606 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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

APPLICATIONS

FcRH5 (N-16) is recommended for detection of FcRH5 of human 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); may cross-react with FcRH3.

Suitable for use as control antibody for FcRH5 siRNA (h): sc-45696.

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.