SANTA CRUZ BIOTECHNOLOGY, INC.

FcRH5 (N-14): sc-46605

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: Fcrl5 (mouse) mapping to 3 F1.

SOURCE

FcRH5 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus 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-46605 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FcRH5 (N-14) 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

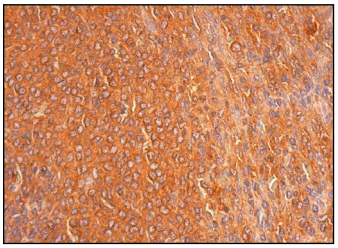
Suitable for use as control antibody for FcRH5 siRNA (h): sc-45696, FcRH5 shRNA Plasmid (h): sc-45696-SH and FcRH5 shRNA (h) Lentiviral Particles: sc-45696-V.

Molecular Weight of FcRH5: 106 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



FcRH5 (N-14): sc-46605. Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of cells in white pulp and cells in red pulp.

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.