

CD89 (h): 293T Lysate: sc-114169

BACKGROUND

Fc (Ig constant fragment) receptors ensure protection of the host against foreign antigens, such as microorganisms and pathogens, by removing Ig-coated antigen complexes from circulation. Fc receptors are present on lymphoid and myeloid derivatives, where they mediate endocytosis of Ig-antigen complexes, antibody production in B cells through T cell antigen presentation, cytotoxicity and the release of cytokines and reactive oxygen species. CD89, also known as Immunoglobulin α Fc receptor (Fc α RI), is a glycoprotein that is expressed on the surface of neutrophils, monocytes, macrophages and eosinophils and is a potent cytotoxic trigger molecule. CD89 specifically interacts with aggregated IgAs, not IgG. Cytokines can initiate a high-binding state for CD89 through a mechanism that involves the intracellular C-terminus of CD89. Polymorphisms within the gene encoding CD89 may be associated with susceptibility to IgA nephropathy, a form of glomerulonephritis characterized by IgA antibody deposition in the kidney glomerulus.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: FCAR (human) mapping to 19q13.42.

PRODUCT

CD89 (h): 293T Lysate represents a lysate of human CD89 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

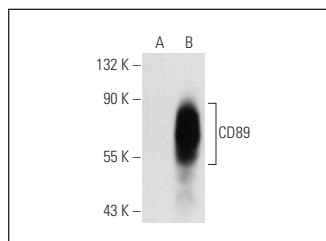
APPLICATIONS

CD89 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CD89 antibodies. Recommended use: 10-20 μ l per lane.

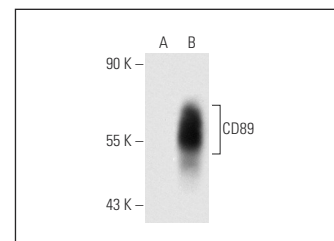
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CD89 (MIP8a): sc-59138 is recommended as a positive control antibody for Western Blot analysis of enhanced human CD89 expression in CD89 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



CD89 (MIP8a): sc-59138. Western blot analysis of CD89 expression in non-transfected: sc-117752 (A) and human CD89 transfected: sc-114169 (B) 293T whole cell lysates.



CD89 (MIP7c): sc-101472. Western blot analysis of CD89 expression in non-transfected: sc-117752 (A) and human CD89 transfected: sc-114169 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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