

FHR-4 (V-12): sc-161595

BACKGROUND

The Factor H gene family is a multidomain, multifunctional protein family whose individual members are defined by conserved structural elements, which display diverse yet often overlapping functions. These proteins share a common structural motif, the short consensus repeat (SCR), which is structurally conserved among related genes and between phylogenetically divergent species. SCR domains typically exist in a wide variety of complement and adhesion proteins. FHR-4 (complement factor H-related protein 4) is a secreted protein that functions as a homodimer and contains five SCR domains. The dimeric form of FHR-4 is present in triglyceride-rich lipoproteins and may play a role in lipid metabolism. Unlike FHR-3, FHR-4 does not bind heparin, however both FHR-3 and FHR-4 enhance the cofactor activity of factor H in complement 3b (C3b) inactivation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CFHR4 (human) mapping to 1q31.3.

SOURCE

FHR-4 (V-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FHR-4 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-161595 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FHR-4 (V-12) is recommended for detection of FHR-4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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); non cross-reactive with other FHR family members.

FHR-4 (V-12) is also recommended for detection of FHR-4 in additional species, including bovine.

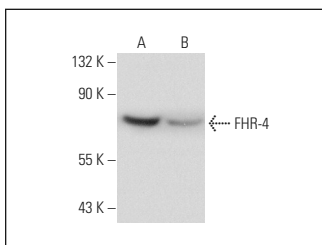
Suitable for use as control antibody for FHR-4 siRNA (h): sc-88572, FHR-4 shRNA Plasmid (h): sc-88572-SH and FHR-4 shRNA (h) Lentiviral Particles: sc-88572-V.

Molecular Weight of FHR-4 monomer: 63 kDa.

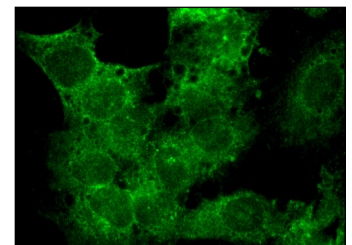
Molecular Weight of FHR-4 dimer: 86 kDa.

Positive Controls: SK-N-MC cell lysate: sc-2237 or Hep G2 cell lysate: sc-2227.

DATA



FHR-4 (V-12): sc-161595. Western blot analysis of FHR-4 expression in Hep G2 (A) and SK-N-MC (B) whole cell lysates.



FHR-4 (V-12): sc-161595. Immunofluorescence staining of formalin-fixed Hep G2 cells showing cytoplasmic localization.

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.