



FHR-5 (G-16): sc-104238

BACKGROUND

The Factor H gene family is a multidomain, multifunctional protein family whose individual members are defined by conserved structural elements and 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. Five Factor H-related proteins, FHR-1–5, have been identified. All five are closely linked to the Factor H gene on chromosome 1q31.3. FHR-5, which is synthesized in the liver and contains nine SCRs, co-localizes with complement deposits, suggesting a role in complement regulation or localization. FHR-5 also has been shown to associate with high density lipid lipoprotein complexes in human plasma, indicating a role for FHR-5 independent of its complement-regulatory activity.

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CHROMOSOMAL LOCATION

Genetic locus: CFHR5 (human) mapping to 1q31.3.

SOURCE

FHR-5 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FHR-5 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-104238 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FHR-5 (G-16) is recommended for detection of FHR-5 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); non cross-reactive with other FHR family members .

Suitable for use as control antibody for FHR-5 siRNA (h): sc-88729, FHR-5 shRNA Plasmid (h): sc-88729-SH and FHR-5 shRNA (h) Lentiviral Particles: sc-88729-V.

Molecular Weight of FHR-5: 65 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.

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.