

Reg IV (H-40): sc-67187

BACKGROUND

Reg IV is part of the regenerating gene family, within the C-type lectin superfamily. This family is involved in liver, pancreatic, gastric and intestinal cell proliferation and differentiation. Reg IV is a 158 amino acid secretory protein implicated in cell regeneration and/or survival with a definite growth stimulating effect on pancreatic β cells. It is highly expressed in colorectal, gastric, prostate and other types of cancer. Reg IV⁺ tumor cells display different phenotypes including mucus-secreting, enterocyte-like and undifferentiated.

REFERENCES

1. Violette, S., et al. 2002. Reg IV, a new member of the regenerating gene family, is overexpressed in colo-rectal carcinomas. *Int. J. Cancer* 103: 185-193.
2. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609846. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: REG4 (human) mapping to 1p12; Reg4 (mouse) mapping to 3 F2.2.

SOURCE

Reg IV (H-40) is a rabbit polyclonal antibody raised against amino acids 23-62 mapping near the N-terminus of Reg IV of human origin.

PRODUCT

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

RESEARCH USE

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

APPLICATIONS

Reg IV (H-40) is recommended for detection of Reg IV isoforms 1, 2 and 3 of human, mouse and, to a lesser extent, rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

Reg IV (H-40) is also recommended for detection of Reg IV isoforms 1, 2 and 3 in additional species, including canine and porcine.

Suitable for use as control antibody for Reg IV siRNA (h): sc-61448, Reg IV siRNA (m): sc-61449, Reg IV shRNA Plasmid (h): sc-61448-SH, Reg IV shRNA Plasmid (m): sc-61449-SH, Reg IV shRNA (h) Lentiviral Particles: sc-61448-V and Reg IV shRNA (m) Lentiviral Particles: sc-61449-V.

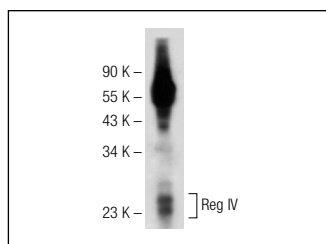
Molecular Weight of Reg IV: 20 kDa.

Positive Controls: mouse liver extract: sc-2256.

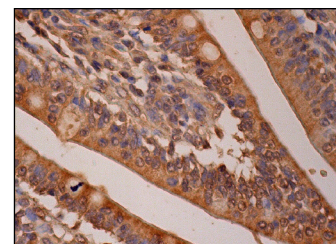
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz[™]: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Reg IV (H-40): sc-67187. Western blot analysis of Reg IV expression in mouse liver tissue extract.



Reg IV (H-40): sc-67187. Immunoperoxidase staining of formalin fixed, paraffin-embedded human small intestine tissue showing cytoplasmic staining of glandular cells.

STORAGE

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

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **Reg IV (Lc07): sc-80320**, our highly recommended monoclonal alternative to Reg IV (H-40).