# HSPC159 (T-12): sc-161080



The Power to Question

# **BACKGROUND**

Galectins are a family of soluble  $\beta$ -galactoside-binding animal lectins that modulate cell-to-cell adhesion and cell-to-extracellular matrix (ECM) interactions and play a role in tumor progression, pre-mRNA splicing and apoptosis. The galectin-related protein (GRP), also designated HSPC159, is a 172 amino acid protein that contains one galectin domain. However, HSPC159 does not appear to bind carbohydrates or lactose because the critical residues required for binding are not conserved. The gene encoding HSPC159 maps to human chromosome 2, which consists of 237 million bases and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2, including Harlequin icthyosis, sitosterolemia and Alström syndrome.

# **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: HSPC159 (human) mapping to 2p14; 1110067D22Rik (mouse) mapping to 11 A3.1.

# **SOURCE**

HSPC159 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HSPC159 of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161080 P, (100  $\mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

HSPC159 (T-12) is recommended for detection of HSPC159 of human origin and Grpa of mouse origin of mouse, rat and 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 HSPC family members.

HSPC159 (T-12) is also recommended in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for HSPC159 siRNA (h): sc-94804, Grpa siRNA (m): sc-145780, HSPC159 shRNA Plasmid (h): sc-94804-SH, Grpa shRNA Plasmid (m): sc-145780-SH, HSPC159 shRNA (h) Lentiviral Particles: sc-94804-V and Grpa shRNA (m) Lentiviral Particles: sc-145780-V.

Molecular Weight of HSPC159: 19 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.

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