HIT-40 (G-15): sc-243028



The Power to Question

BACKGROUND

HIT-40, also known as ZNF799 (zinc finger protein 799), is a 643 amino acid nuclear protein that belongs to the krueppel C_2H_2 -type zinc-finger protein family. Containing 18 C_2H_2 -type zinc fingers and one KRAB domain, HIT-40 may be involved in transcriptional regulation. HIT-40 exists as two isoforms due to alternative splicing events, and is encoded by a gene that maps to human chromosome 19p13.2. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG families, and $Fc\alpha$ receptors. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19.

REFERENCES

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- Wang, L., et al. 2000. C-CAM1, a candidate tumor suppressor gene, is abnormally expressed in primary lung cancers. Clin. Cancer Res. 6: 2988-2993.
- Trowsdale, J., et al. 2001. The genomic context of natural killer receptor extended gene families. Immunol. Rev. 181: 20-38.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF799 (human) mapping to 19p13.2.

SOURCE

HIT-40 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HIT-40 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-243028 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HIT-40 (G-15) is recommended for detection of HIT-40 of human 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HIT-40 siRNA (h): sc-97562, HIT-40 shRNA Plasmid (h): sc-97562-SH and HIT-40 shRNA (h) Lentiviral Particles: sc-97562-V.

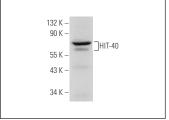
Molecular Weight of HIT-40: 74 kDa.

Positive Controls: SK-N-MC cell lysate: sc-2237 or HeLa whole cell lysate: sc-2200.

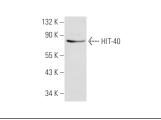
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA







HIT-40 (G-15): sc-243028. Western blot analysis of HIT-40 expression in SK-N-MC whole cell lysate.

HIT-40 (G-15): sc-243028. Western blot analysis of HIT-40 expression in HeLa whole cell lysate.

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.