

CRISP-8 (S-13): sc-87660

BACKGROUND

Cysteine-rich secretory proteins (CRISPs) represent a family of evolutionarily conserved proteins which play a role in the innate immune system and are transcriptionally regulated by androgens in several tissues. CRISP-8 (cysteine-rich secretory protein 8), also known as PI15 (peptidase inhibitor 15), P25TI or SugarCrisp, is a 258 amino acid secreted protein that belongs to the CRISP family. Expressed at low levels in thyroid, prostate, salivary and mammary tissue, CRISP-8 functions as a serine protease inhibitor that exhibits weak inhibitory action against trypsin, a serine protease found in the digestive system. In addition to its role as a protease inhibitor, CRISP-8 is secreted in neuroblastoma and glioblastoma cell lines, suggesting a role for CRISP-8 in tumor formation and metastasis within the central nervous system.

REFERENCES

1. Giacomoni, D., Najmabadi, F. and Dray, S. 1990. Serine proteinase inhibitors produced by human melanoma cell lines. *Tumour Biol.* 11: 39-50.
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3. Yamakawa, T., Miyata, S., Ogawa, N., Koshikawa, N., Yasumitsu, H., Kanamori, T. and Miyazaki, K. 1998. cDNA cloning of a novel trypsin inhibitor with similarity to pathogenesis-related proteins, and its frequent expression in human brain cancer cells. *Biochim. Biophys. Acta* 1395: 202-208.
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5. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607076. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: PI15 (human) mapping to 8q21.11; Pi15 (mouse) mapping to 1 A3.

SOURCE

CRISP-8 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CRISP-8 of human origin.

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.

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-87660 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CRISP-8 (S-13) is recommended for detection of CRISP-8 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 CRISP family members.

CRISP-8 (S-13) is also recommended for detection of CRISP-8 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CRISP-8 siRNA (h): sc-77482, CRISP-8 shRNA Plasmid (h): sc-77482-SH and CRISP-8 shRNA (h) Lentiviral Particles: sc-77482-V.

Molecular Weight of CRISP-8: 25 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.

RESEARCH USE

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



Try **CRISP-8 (I-7): sc-130452**, our highly recommended monoclonal alternative to CRISP-8 (S-13).