

# CRISP-8 (I-7): sc-130452

## 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 P115 (Peptidase inhibitor 15), P25T1 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.
2. Koshikawa, N., Nakamura, T., Tsuchiya, N., Isaji, M., Yasumitsu, H., Umeda, M. and Miyazaki, K. 1996. Purification and identification of a novel and four known serine proteinase inhibitors secreted by human glioblastoma cells. *J. Biochem.* 119: 334-339.
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<sup>™</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607076. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: P115 (human) mapping to 8q21.11.

## SOURCE

CRISP-8 (I-7) is a mouse monoclonal antibody raised against recombinant CRISP-8 of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## 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.

## APPLICATIONS

CRISP-8 (I-7) is recommended for detection of CRISP-8 of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

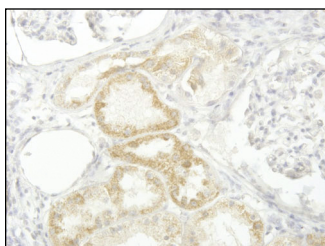
Suitable for use as control antibody for CRISP-8 siRNA (h): sc-77482, CRISP-8 shRNA Plasmid (h): sc-77482-SH and CRISP-8 shRNA (h) Lenti-viral Particles: sc-77482-V.

Molecular Weight of CRISP-8: 25 kDa.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



CRISP-8 (I-7): sc-130452. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human kidney tissue showing cytoplasmic and extracellular localization.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.