



CPN cat (h4): 293 Lysate: sc-158398

BACKGROUND

Carboxypeptidase N (arginine carboxypeptidase or CPN) cleaves basic amino acid residues from the carboxy-terminal of peptides and proteins. The enzyme plays a central role in regulating the biologic activity of peptides such as kinins and anaphylatoxins, and therefore is also known as kininase-1 and anaphylatoxin inactivator. CPN is a tetrameric complex consisting of two identical regulatory subunits (CPN reg) and two identical catalytic subunits (CPN cat). The two glycosylated CPN reg subunits protect the two CPN cat subunits and keep them in the circulation. CPN reg is a member of the leucine-rich repeat family of proteins and the gene which encodes CPN reg maps to human chromosome 8p22-p23. CPN cat is a member of the regulatory B-type carboxypeptidase group and the gene which encodes CPN cat maps to human chromosome 10.

REFERENCES

1. Erdos, E.G. 1990. Some old and some new ideas on kinin metabolism. *J. Cardiovasc. Pharmacol.* 15: 20-24.
2. Tan, F., Weerasinghe, D.K., Skidgel, R.A., Tamei, H., Kaul, R.K., Roninson, I.B., Schilling, J.W. and Erdos, E.G. 1990. The deduced protein sequence of the human carboxypeptidase N high molecular weight subunit reveals the presence of leucine-rich tandem repeats. *J. Biol. Chem.* 265: 13-19.
3. Riley, D.A., Tan, F., Miletich, D.J. and Skidgel, R.A. 1998. Chromosomal localization of the genes for human carboxypeptidase D (CPD) and the active 50-kilodalton subunit of human carboxypeptidase N (CPN1). *Genomics* 50: 105-108.
4. LocusLink Report (LocusID: 603103). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: CPN1 (human) mapping to 10q24.2.

PRODUCT

CPN cat (h4): 293 Lysate represents a lysate of human CPN cat transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

CPN cat (h4): 293 Lysate is suitable as a Western Blotting positive control for human reactive CPN cat antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.