



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Pregnancy Zone protein (m): 293T

Lysate: sc-122758

BACKGROUND

Pregnancy Zone protein, also known as PZP or CPAMD6 (C3 and PZP-like α_2 -Macroglobulin domain-containing protein 6), is a 1,482 amino acid secreted protein that belongs to the protease inhibitor I39 family and exists as multiple alternatively spliced isoforms. Expressed predominately in plasma and in late-pregnancy sera, Pregnancy Zone protein functions as a disulfide-linked homotetramer that is able to trap and inhibit proteinases, thus playing a role in the regulation of protein splitting and small peptide formation. The gene encoding Pregnancy Zone protein maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

1. Smithies, O. 1959. Zone electrophoresis in starch gels and its application to studies of serum proteins. *Adv. Protein Chem.* 14: 65-113.
2. Sottrup-Jensen, L., et al. 1984. Partial primary structure of human Pregnancy Zone protein: extensive sequence homology with human α_2 -Macroglobulin. *Proc. Natl. Acad. Sci. USA* 81: 7353-7357.
3. Sand, O., et al. 1985. Characterization of human Pregnancy Zone protein. Comparison with human α_2 -Macroglobulin. *J. Biol. Chem.* 260: 15723-15735.
4. Christensson, A., et al. 1990. Enzymatic activity of prostate-specific antigen and its reactions with extracellular serine proteinase inhibitors. *Eur. J. Biochem.* 194: 755-763.
5. Marynen, P., et al. 1990. A genetic polymorphism in a functional domain of human Pregnancy Zone protein: the bait region. Genomic structure of the bait domains of human Pregnancy Zone protein and α_2 -Macroglobulin. *FEBS Lett.* 262: 349-352.
6. Devriendt, K., et al. 1991. Primary structure of Pregnancy Zone protein. Molecular cloning of a full-length PZP cDNA clone by the polymerase chain reaction. *Biochim. Biophys. Acta* 1088: 95-103.
7. Online Mendelian Inheritance in Man, OMIM[™]. 1992. Johns Hopkins University, Baltimore, MD. MIM Number: 176420. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
8. Philip, A., et al. 1994. Binding of transforming growth factor- β (TGF- β) to pregnancy zone protein (PZP). Comparison to the TGF- β - α 2-macroglobulin interaction. *Eur. J. Biochem.* 221: 687-693.
9. Chiabrando, G.A., et al. 2002. Differential binding properties of human pregnancy zone protein- and alpha2-macroglobulin-proteinase complexes to low-density lipoprotein receptor-related protein. *Arch. Biochem. Biophys.* 398: 73-78.

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.

CHROMOSOMAL LOCATION

Genetic locus: Pzp (mouse) mapping to 6 F3.

PRODUCT

Pregnancy Zone protein (m): 293T Lysate represents a lysate of mouse Pregnancy Zone protein transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Pregnancy Zone protein (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Pregnancy Zone protein antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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.