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Diagnostik & molekulare Diagnostik



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# PCDH11X (h): 293T Lysate: sc-369405

## BACKGROUND

Protocadherins (PCDHs) are a subfamily of cadherins, a large group of related glycoproteins that mediate calcium-dependent cell-cell adhesion via a homophilic mechanism. Involved in a variety of functions, protocadherins help to regulate neural development and synapse formation. PCDH11X (protocadherin 11 X-linked), a 1,347 amino acid protein, and PCDH11Y (protocadherin 11 Y-linked), a 1,340 amino acid protein, are single-pass type I membrane proteins that each contain 7 cadherin domains and each exist as multiple alternatively spliced isoforms. Expressed strongly in both adult and fetal brain tissue, PCDH11X and PCDH11Y function as calcium-dependent cell adhesion proteins that are essential for the segmental development and function of the central nervous system. Variations in the PCDH11X and PCDH11Y genes are associated with an increased susceptibility to brain-related afflictions, such as late-onset Alzheimer's disease.

## REFERENCES

1. Yoshida, K. and Sugano, S. 1999. Identification of a novel protocadherin gene (PCDH11) on the human XY homology region in Xq21.3. *Genomics* 62: 540-543.
2. Yagi, T. and Takeichi, M. 2000. Cadherin superfamily genes: functions, genomic organization, and neurologic diversity. *Genes Dev.* 14: 1169-1180.
3. Nollet, F., et al. 2000. Phylogenetic analysis of the cadherin superfamily allows identification of six major subfamilies besides several solitary members. *J. Mol. Biol.* 299: 551-572.
4. Blanco, P., et al. 2000. Conservation of PCDHX in mammals; expression of human X/Y genes predominantly in brain. *Mamm. Genome* 11: 906-914.
5. Blanco-Arias, P., et al. 2004. Protocadherin X (PCDHX) and Y (PCDHY) genes; multiple mRNA isoforms encoding variant signal peptides and cytoplasmic domains. *Mamm. Genome* 15: 41-52.
6. Durand, C.M., et al. 2006. Expression and genetic variability of PCDH11Y, a gene specific to *Homo sapiens* and candidate for susceptibility to psychiatric disorders. *Am. J. Med. Genet. B Neuropsychiatr. Genet.* 141B: 67-70.
7. Wilson, N.D., et al. 2006. PCDH11 is X/Y homologous in *Homo sapiens* but not in *Gorilla gorilla* and *Pan troglodytes*. *Cytogenet. Genome Res.* 114: 137-139.
8. Carrasquillo, M.M., et al. 2009. Genetic variation in PCDH11X is associated with susceptibility to late-onset Alzheimer's disease. *Nat. Genet.* 41: 192-198.

## CHROMOSOMAL LOCATION

Genetic locus: PCDH11X (human) mapping to Xq21.31.

## PRODUCT

PCDH11X (h): 293T Lysate represents a lysate of human PCDH11X transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## RESEARCH USE

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

## APPLICATIONS

PCDH11X (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PCDH11X antibodies. Recommended use: 10-20 µl per lane.

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

## PROTOCOLS

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