

**PCDHA7 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12655b**

**Specification**

---

**PCDHA7 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O9UN72</a>
Other Accession	<a href="#">O9Y5H5</a> , <a href="#">NP_114040.1</a> , <a href="#">NP_061733.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	100865
Antigen Region	272-300

**PCDHA7 Antibody (Center) - Additional Information**

**Gene ID** 56141

**Other Names**

Protocadherin alpha-7, PCDH-alpha-7, PCDHA7, CNRS4

**Target/Specificity**

This PCDHA7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 272-300 amino acids from the Central region of human PCDHA7.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PCDHA7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PCDHA7 Antibody (Center) - Protein Information**

**Name** PCDHA7 ([HGNC:8673](#))

**Function** Calcium-dependent cell-adhesion protein involved in cells self-recognition and non-self

discrimination. Thereby, it is involved in the establishment and maintenance of specific neuronal connections in the brain.

#### Cellular Location

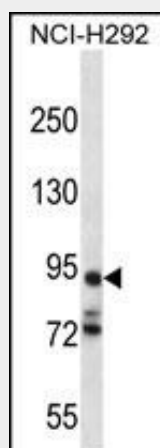
Cell membrane {ECO:0000250|UniProtKB:Q91Y13}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q91Y13}

#### PCDHA7 Antibody (Center) - Protocols

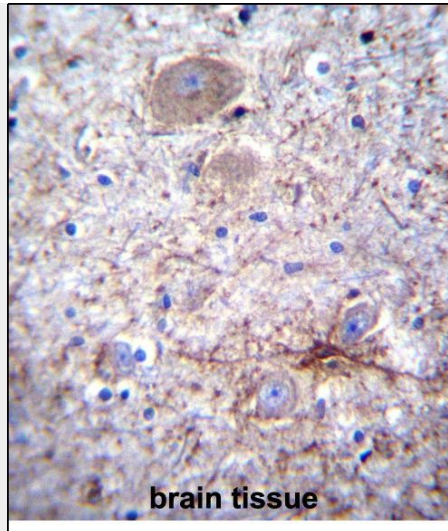
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### PCDHA7 Antibody (Center) - Images



PCDHA7 Antibody (Center) (Cat. #AP12655b) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the PCDHA7 antibody detected the PCDHA7 protein (arrow).



PCDHA7 Antibody (Center) (Cat. #AP12655b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PCDHA7 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **PCDHA7 Antibody (Center) - Background**

This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.

#### **PCDHA7 Antibody (Center) - References**

- Wu, C., et al. Proteomics 7(11):1775-1785(2007)
- Wu, Q., et al. Genome Res. 11(3):389-404(2001)
- Nollet, F., et al. J. Mol. Biol. 299(3):551-572(2000)
- Yagi, T., et al. Genes Dev. 14(10):1169-1180(2000)
- Wu, Q., et al. Proc. Natl. Acad. Sci. U.S.A. 97(7):3124-3129(2000)