SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-PCDH7/AF647 Conjugated antibody

Catalog Number: SL11085R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PCDH7/AF647 Conjugated
Immunogen:	KLH conjugated synthetic peptide derived from human PCDH7
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Horse,Sheep)
Background:	background: As a subfamily of the cadherin superfamily, protocadherins are cadherin-like cell adhesion proteins that contain up to seven extracellular domains and are predominantly expressed in the nervous system. Importantly, the adhesion mechanism of protocadherins is distinct from classic cadherins. Through inactivation or overexpression, several protocadherins have been implicated in a variety of cancers. PCDH7 (protocadherin 7), also known as BHPCDH or BH-Pcdh, is a 1069 amino acid single-pass I membrane protein that is expressed in the brain and heart. Containing seven cadherin domains, PCDH7 is thought to function in cell-cell recognition and adhesion. PCDH7 exists as three isoforms due to alternative splicing events. **Function:** Expressed predominantly in brain and heart and at lower levels in various other tissues. **Subcellular Location:** Cell membrane. **Post-translational modifications:** Isoform C is phosphorylated upon DNA damage, probably by ATM or ATR. **Similarity:** Contains 7 cadherin domains.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Database links: **Entrez Gene:** 488843 Dog **Entrez Gene:** 5099 Human **Entrez Gene:** 54216 Mouse Omim: 602988 Human **SwissProt:** O60245 Human **Unigene:** 479439 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

[VALIDATION IMAGES]

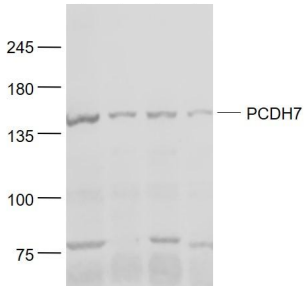


Figure 1. Sample: Hela(Human) Cell Lysate at 30 ug HepG2(Human) Cell Lysate at 30 ug MCF-7(Human) Cell Lysate at 30 ug NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti- PCDH7 (SL11085R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 113 kD Observed band size: 150 kD

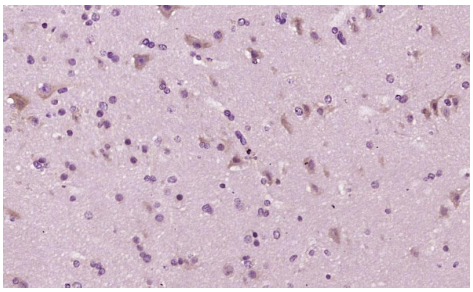


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PCDH7) Polyclonal Antibody, Unconjugated (SL11085R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining Journal PMID IF Application [IF=10.122] Yoon, Ji Soo. et al. Calcium-dependent transcriptional changes in human pancreatic islet cells reveal functional diversity in islet cell subtypes. DIABETOLOGIA. 2022 May;:1-15 FC ; Human . Research Area Neurobiology Signal transduction Cell adhesion molecule Cytoskeleton The cell membraneprotein Immunogen Species Rabbit Clonality Polyclonal React Species Human,Mouse(predicted:Rat,Dog,Pig,Cow,Horse,Sheep) Applications not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. Molecular weight 113kDa Form Lyophilized or Liquid Concentration 1mg/ml immunogen KLH conjugated synthetic peptide derived from human PCDH7 Lsotype IgG Puri