

# PCDHA3 Rabbit pAb

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Catalog # AP54384

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF   |
| <b>Primary Accession</b>       | <a href="#">Q9Y5H8</a>   |
| <b>Predicted</b>               | Human, Mouse, Rat, Dog, Horse  |
| <b>Host</b>                    | Rabbit   |
| <b>Clonality</b>               | Polyclonal   |
| <b>Calculated MW</b>           | 102428   |
| <b>Physical State</b>          | Liquid   |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human PCDHA3   |
| <b>Epitope Specificity</b>     | 131-230/950  |
| <b>Isotype</b>                 | IgG  |
| <b>Purity</b>                  | affinity purified by Protein A   |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  |
| <b>SUBCELLULAR LOCATION</b>    | Cell membrane; Single pass type I membrane protein.  |
| <b>SIMILARITY</b>              | Contains 6 cadherin domains.   |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.  |
| <b>Background Descriptions</b> | Protocadherins are a large family of cadherin-like cell adhesion proteins that are involved in the establishment and maintenance of neuronal connections in the brain. There are three protocadherin (PCDH) gene clusters, designated alpha, beta and gamma, all of which contain multiple tandemly arranged genes. The protein products of PCDH-alpha genes interact with Integrin $\beta$ 1 to promote cell adhesion and form oligomers with PCDH-gamma proteins at specific membrane sites. PCDHA3 (Protocadherin alpha-3) is a 950 amino acid single-pass transmembrane protein that contains six cadherin domains. PCDHA3 is a unique cadherin in that it likely functions in spermatogenesis and may also have a role in organizing germ cell-specific structures, such as the flagellum, acrosome and intercellular bridge. There are two isoforms of PCDHA13 that are produced as a result of alternative splicing events. |

## Additional Information

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| <b>Gene ID</b>     | 56145   |
| <b>Other Names</b> | Protocadherin alpha-3, PCDH-alpha-3, PCDHA3   |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500   |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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|--------------------------|--|
| <b>Name</b>              | PCDHA3   |
| <b>Function</b>          | Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain. |
| <b>Cellular Location</b> | Cell membrane; Single-pass type I membrane protein   |

## Background

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Protocadherins are a large family of cadherin-like cell adhesion proteins that are involved in the establishment and maintenance of neuronal connections in the brain. There are three protocadherin (PCDH) gene clusters, designated alpha, beta and gamma, all of which contain multiple tandemly arranged genes. The protein products of PCDH-alpha genes interact with Integrin  $\beta$ 1 to promote cell adhesion and form oligomers with PCDH-gamma proteins at specific membrane sites. PCDHA3 (Protocadherin alpha-3) is a 950 amino acid single-pass transmembrane protein that contains six cadherin domains. PCDHA3 is a unique cadherin in that it likely functions in spermatogenesis and may also have a role in organizing germ cell-specific structures, such as the flagellum, acrosome and intercellular bridge. There are two isoforms of PCDHA13 that are produced as a result of alternative splicing events.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.