

Datasheet for ABIN657534

**anti-PCDHGA3 antibody (AA 284-311)****3** Images**1** Publication[Go to Product page](#)

## Overview

Quantity:	400 µL
Target:	PCDHGA3 (PCDHgA3)
Binding Specificity:	AA 284-311
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PCDHGA3 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This PCDHGA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 284-311 amino acids from the Central region of human PCDHGA3.
Clone:	RB33029
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	PCDHGA3 (PCDHgA3)
Alternative Name:	PCDHGA3 ( <a href="#">PCDHgA3 Products</a> )

## Target Details

**Background:** This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

**Molecular Weight:** 100971

**Gene ID:** 56112

**NCBI Accession:** [NP\\_061739](#), [NP\\_114400](#)

**UniProt:** [Q9Y5H0](#)

## Application Details

**Application Notes:** WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**Preservative:** Sodium azide

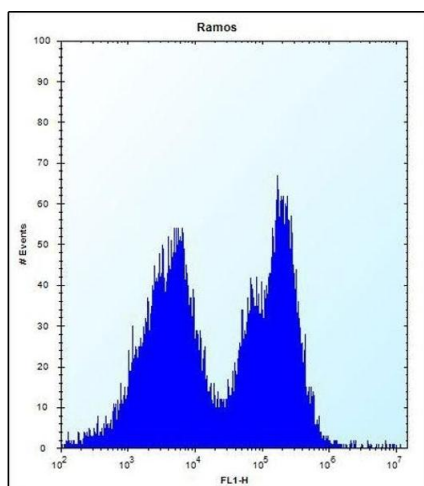
**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C, -20 °C

**Storage Comment:** PCDHGA3 Antibody (Center) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.

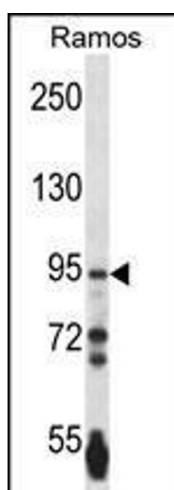
**Expiry Date:** 6 months

Product cited in: Zhang, Takata, Cui, Miyata-Takata, Sato, Noujima-Harada, Yoshino: "Protocadherin  $\gamma$  A3 is expressed in follicular lymphoma irrespective of BCL2 status and is associated with tumor cell growth." in: **Molecular medicine reports**, Vol. 14, Issue 5, pp. 4622-4628, (2017) ([PubMed](#)).



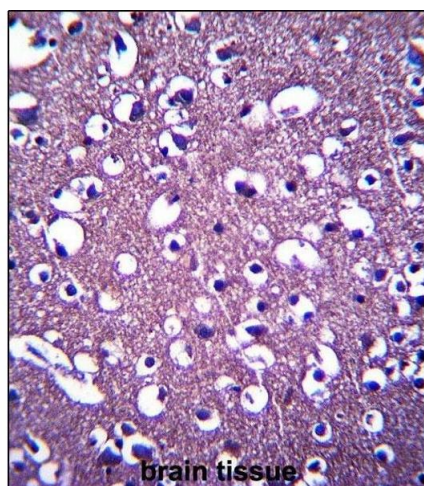
#### Flow Cytometry

**Image 1.** PCDHGA3 Antibody (Center) (ABIN657534 and ABIN2846552) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.



#### Western Blotting

**Image 2.** PCDHGA3 Antibody (Center) (ABIN657534 and ABIN2846552) western blot analysis in Ramos cell line lysates (35  $\mu$ g/lane). This demonstrates the PCDHGA3 antibody detected the PCDHGA3 protein (arrow).



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** PCDHGA3 Antibody (Center) (ABIN657534 and ABIN2846552) 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 PCDHGA3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.