



Rabbit Anti-Chimaerin 2 antibody

SL13903R

Product Name:	Chimaerin 2
Chinese Name:	嵌合蛋白2/ β 2-chimaerin抗体
Alias:	ARHGAP3; BCH; Beta chimerin; Chimaerin2; Chimerin (chimaerin) 2; Chimerin 2; CHN 2; CHN2; CHIO_HUMAN; MGC138360; Rho GTPase activating protein 3; RHOGAP3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	54kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Chimaerin 2:251-350/468
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene is a member of the chimerin family and encodes a protein with a phorbol-ester/DAG-type zinc finger, a Rho-GAP domain and an SH2 domain. This protein has GTPase-activating protein activity that is regulated by phospholipid binding and binding of diacylglycerol (DAG) induces translocation of the protein from the cytosol to the Golgi apparatus membrane. The protein plays a role in the proliferation and migration

of smooth muscle cells. Decreased expression of this gene is associated with high-grade gliomas and breast tumors, and increased expression of this gene is associated with lymphomas. Mutations in this gene have been associated with schizophrenia in men. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Function:

The Chimaerin gene is a member of the chimerin family and encodes a protein with a phorbol-ester/DAG-type zinc finger, an SH2 domain and a Rho-GAP domain. This protein has GTPase-activating protein activity which is regulated by phospholipid binding and binding of diacylglycerol (DAG) induces translocation of the protein from the cytosol to the Golgi apparatus membrane. The protein plays a role in the proliferation and migration of smooth muscle cells. Increased expression of this gene is associated with lymphomas and decreased expression of this gene is associated with high-grade gliomas and breast tumors. Mutations in this gene have been associated with schizophrenia in men. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Subcellular Location:

Membrane; Peripheral membrane protein

Tissue Specificity:

Highest levels in the brain and pancreas. Also expressed in the heart, placenta, and weakly in the kidney and liver. Expression is much reduced in the malignant gliomas, compared to normal brain or low-grade astrocytomas.

Similarity:

Contains 1 phorbol-ester/DAG-type zinc finger.

Contains 1 Rho-GAP domain.

Contains 1 SH2 domain.

SWISS:

P52757

Gene ID:

1124

Database links:

[Entrez Gene: 1124](#) Human

[Entrez Gene: 69993](#) Mouse

[Entrez Gene: 84031](#) Rat

[Omim: 602857](#) Human

[SwissProt: P52757](#) Human

[SwissProt: Q80XD1](#) Mouse

[SwissProt: Q03070](#) Rat

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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