

Chimaerin 2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55338

Specification

Physical State

Chimaerin 2 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>P52757</u>

Reactivity
Host
Clonality
Calculated MW
Rat, Pig, Bovine
Rabbit
Polyclonal
54 KDa

Immunogen KLH conjugated synthetic peptide derived

Liquid

from human Chimaerin 2

Epitope Specificity 251-350/468

Isotype IgG Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Membrane; Peripheral membrane protein

SIMILARITY Contains 1 phorbol-ester/DAG-type zinc

finger.Contains 1 Rho-GAP domain.Contains 1 SH2 domain.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

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]

Chimaerin 2 Polyclonal Antibody - Additional Information

Gene ID 1124

Other Names

Beta-chimaerin, Beta-chimerin, Rho GTPase-activating protein 3, CHN2, ARHGAP3, BCH

Target/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.

Dilution

IHC-P~~N/A<br \><span class</pre> ="dilution IHC-F">IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage

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.

Chimaerin 2 Polyclonal Antibody - Protein Information

Name CHN2

Synonyms ARHGAP3, BCH

Function

GTPase-activating protein for p21-rac. Insufficient expression of beta-2 chimaerin is expected to lead to higher Rac activity and could therefore play a role in the progression from low- grade to high-grade tumors.

Cellular Location

Membrane; Peripheral membrane protein

Tissue Location

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

Chimaerin 2 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Chimaerin 2 Polyclonal Antibody - Images