10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ABR Picoband Antibody

Catalog # ABO12657

Specification

Anti-ABR Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q12979
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Active breakpoint cluster region-related protein(ABR) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ABR Picoband Antibody - Additional Information

Gene ID 29

Other Names
Active breakpoint cluster region-related protein, ABR

Calculated MW
97598 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Tissue Specificity
Highly enriched in the brain. Much weaker expression in heart, lung and muscle.

Protein Name
Active breakpoint cluster region-related protein

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human ABR (370-407aa HPFPDHELEDMKMKISALKSEIQKEKANKGQSRAIERL), different from the related mouse sequence by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-ABR Picoband Antibody - Protein Information

Name ABR (HGNC:81)

Function
Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form (PubMed:17116687, PubMed:7479768). The central Dbl homology (DH) domain functions as a guanine nucleotide exchange factor (GEF) that modulates the GTPases CDC42, RHOA and RAC1. Promotes the conversion of CDC42, RHOA and RAC1 from the GDP-bound to the GTP-bound form (PubMed:7479768). Functions as an important negative regulator of neuronal RAC1 activity (By similarity). Regulates macrophage functions such as CSF-1 directed motility and phagocytosis through the modulation of RAC1 activity (By similarity).

Cellular Location
Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q5SSL4}. Cell projection, axon {ECO:0000250|UniProtKB:Q5SSL4}. Synapse {ECO:0000250|UniProtKB:A0A0G2JTR4}

Tissue Location
Highly enriched in the brain. Much weaker expression in heart, lung and muscle

Anti-ABR Picoband Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ABR Picoband Antibody - Images

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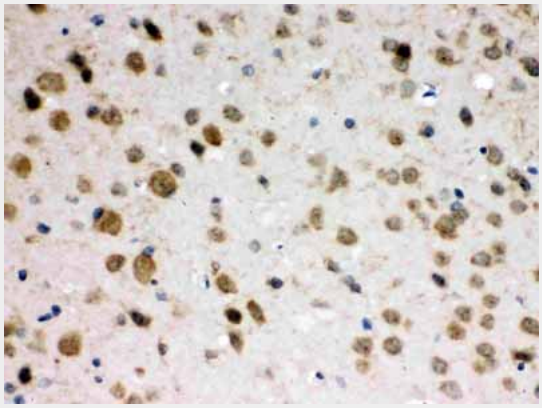
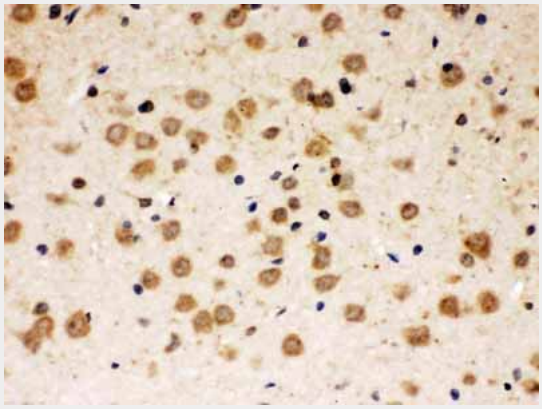
Western blot analysis of ABR expression in rat brain extract (lane 1) and mouse brain extract (lane 2). ABR at 98KD was detected using rabbit anti- ABR Antigen Affinity purified polyclonal antibody (Catalog # ABO12657) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



ABR was detected in paraffin-embedded sections of mouse brain tissues using rabbit anti- ABR Antigen Affinity purified polyclonal antibody (Catalog # ABO12657) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



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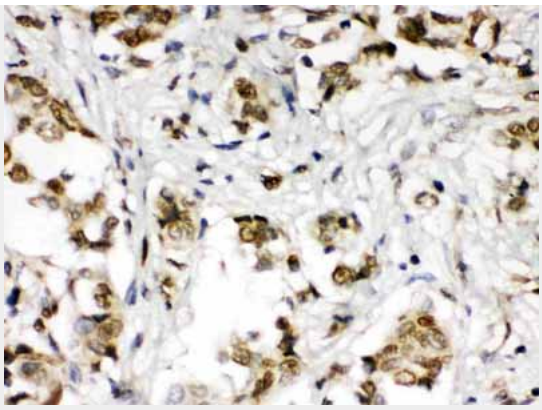

ABR was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- ABR Antigen Affinity purified polyclonal antibody (Catalog # ABO12657) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

Anti-ABR Picoband Antibody - Background

This ABR gene encodes a protein that is similar to the protein encoded by the breakpoint cluster region gene located on chromosome 22. The protein encoded by this gene contains a GTPase-activating protein domain, a domain found in members of the Rho family of GTP-binding proteins. Functional studies in mice determined that this protein plays a role in vestibular morphogenesis. Alternatively spliced transcript variants have been reported for this gene.