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GPR17 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9852c

Specification

GPR17 Antibody (Center) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	Q13304
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**40989**
Antigen Region	**230-258**

GPR17 Antibody (Center) - Additional Information

Gene ID 2840

Other Names
Uracil nucleotide/cysteinyl leukotriene receptor, UDP/CysLT receptor, G-protein coupled receptor 17, P2Y-like receptor, R12, GPR17

Target/Specificity
This GPR17 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 230-258 amino acids from the Central region of human GPR17.

Dilution
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GPR17 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR17 Antibody (Center) - Protein Information

Name GPR17

Function Dual specificity receptor for uracil nucleotides and cysteinyl leukotrienes (CysLTs). Signals through G(i) and inhibition of adenylyl cyclase. May mediate brain damage by nucleotides and CysLTs following ischemia.

Cellular Location
Cell membrane; Multi-pass membrane protein.

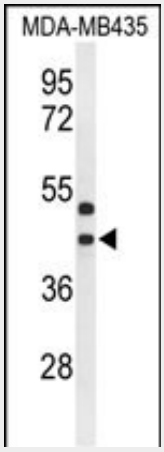
Tissue Location
Expressed in brain, kidney, heart and umbilical vein endothelial cells. Highest level in brain

GPR17 Antibody (Center) - 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

GPR17 Antibody (Center) - Images



Western blot analysis of GPR17 Antibody (Center) (Cat. #AP9852c) in MDA-MB435 cell line lysates (35ug/lane). GPR17 (arrow) was detected using the purified Pab.

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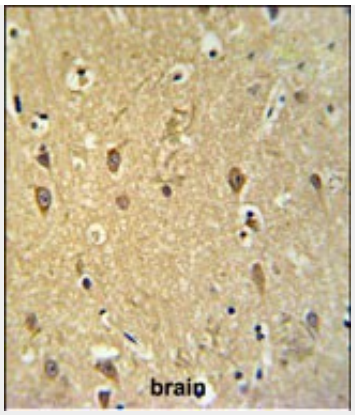
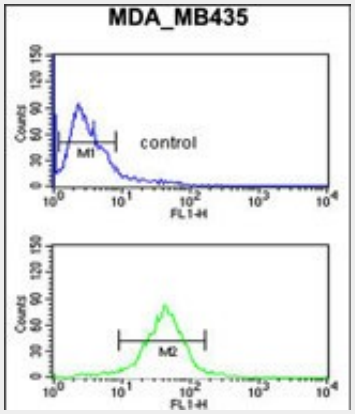


GPR17 Antibody (Center) (Cat. #AP9852c) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GPR17 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



GPR17 Antibody (Center) (Cat. #AP9852c) flow cytometric analysis of MDA-MB435 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GPR17 Antibody (Center) - Background

Members of the G protein coupled receptor (GPCR) superfamily contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. The organization of the GPR17 gene differs from that of many other GPCRs in that the open reading frame is distributed on 2 exons; an additional exon contains the 5 prime untranslated region. Human GPR17 is expressed as 2.3 and 6.3 kb mRNAs exclusively in brain. The 2 transcripts appear to represent alternatively polyadenylated variants. Based on protein sequence homology and the conservation of certain key residues, GPR17 appears to be closely related to the P2Y family of GPCRs. There are two nemed isoforms.

GPR17 Antibody (Center) - References

Pugliese, A.M., et al. Am. J. Physiol., Cell Physiol. 297 (4), C1028-C1040 (2009)
Parravicini, C., et al. BMC Bioinformatics 9, 263 (2008)
Ciana, P., et al. EMBO J. 25(19):4615-4627(2006)