

# GPR17 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9852c

## Product Information

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<b>Application</b>	WB, IHC-P, FC, E
<b>Primary Accession</b>	<a href="#">Q13304</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB24874
<b>Calculated MW</b>	40989
<b>Antigen Region</b>	230-258

## Additional Information

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<b>Gene ID</b>	2840
<b>Other Names</b>	Uracil nucleotide/cysteinyl leukotriene receptor, UDP/CysLT receptor, G-protein coupled receptor 17, P2Y-like receptor, R12, GPR17
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	GPR17 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	GPR17
<b>Function</b>	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

## Background

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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 named isoforms.

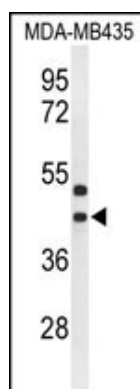
## References

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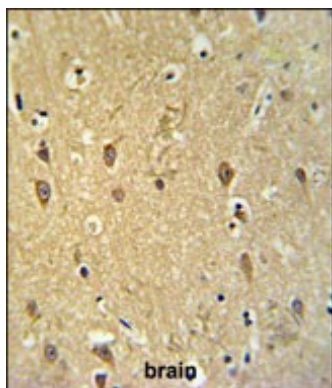
Pugliese, A.M., et al. Am. J. Physiol., Cell Physiol. 297 (4), C1028-C1040 (2009)  
Parravicini, C., et al. BMC Bioinformatics 9, 263 (2008)  
Ciana, P., et al. EMBO J. 25(19):4615-4627(2006)

## Images

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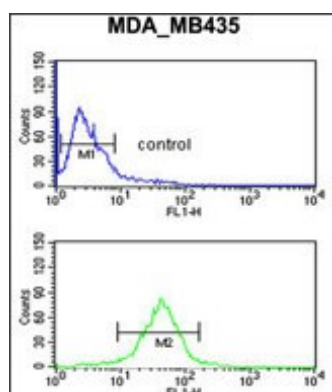


Western blot analysis of GPR17 Antibody (Center) (Cat. #AP9852c) in MDA-MB435 cell line lysates (35ug/lane). GPR17 (arrow) was detected using the purified Pab.



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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.