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GPR17 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9852c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q13304
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24874
Calculated MW	40989
Antigen Region	230-258

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	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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.

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

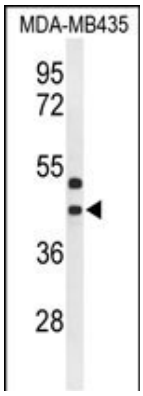
Background

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.

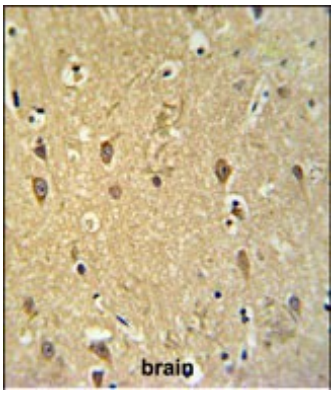
References

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)

Images

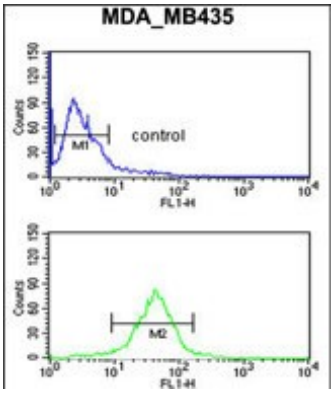


Western blot analysis of GPR17 Antibody (Center) (Cat. #AP9852c) in MDA-MB435 cell line lysates (35ug/lane). GPR17 (arrow) was detected using the purified Pab.



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.



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