SunLong Biotech Co.,LTD
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Rabbit Anti-GPR17 antibody

SL12022R

Product Name	GPR17
Chinese Name	G protein-coupled receptor17 抗体
Alias	DKFZp686M18273; G protein coupled receptor 17; G-protein coupled receptor 17; GPR 17; Gpr17; GPCR17; GPR17_HUMAN; P2Y like receptor; P2Y-like receptor; Probable P2Y purinoceptor GPR 17; Probable P2Y purinoceptor GPR17; R12; UDP/CysLT receptor; Uracil nucleotide/cysteinyl leukotriene receptor.
Research Area	Neurobiology Signal transduction The cell membrane 受体 G protein-coupled receptor G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Rabbit)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	41kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GPR17: 1-100/367 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed PubMed

Product Detail

G protein-coupled receptor 17, GPR17, also known as uracil nucleotide/cysteinyl leukotriene receptor or P2Y-like receptor (P2YL), is a 367 amino acid member of the G-protein coupled receptor 1 family of proteins. While GPR17 is expressed in kidney, heart and umbilical vein endothelial cells, it is expressed in the highest levels in the brain. Upon brain injury, the extracellular concentrations of nucleotides and cysteinyl leukotrienes (CysLTs), two families of endogenous signaling molecules, increase significantly at the site of damage. In some neurons, GPR17, a membrane receptor for uracil nucleotide and CysLTs, is upregulated as well, infiltrating the lesioned area. GPR17 is thought to play a role in mediating neuronal death, remodeling brain circuitries by microglia and initiating remyelination in damaged neurons. Two named isoforms of GPR17 exist as a result of alternative splicing events.

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.

Subcellular Location:
Cell membrane.

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

Similarity:
Belongs to the G-protein coupled receptor 1 family.

SWISS:
Q13304

Gene ID:
2840

Database links:

Entrez Gene: 2840 Human

Entrez Gene: 574402 Mouse

Entrez Gene: 767613 Rat

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Omim: 603071 Human

SwissProt: Q13304 Human

SwissProt: Q6NS65 Mouse

SwissProt: Q09QM4 Rat

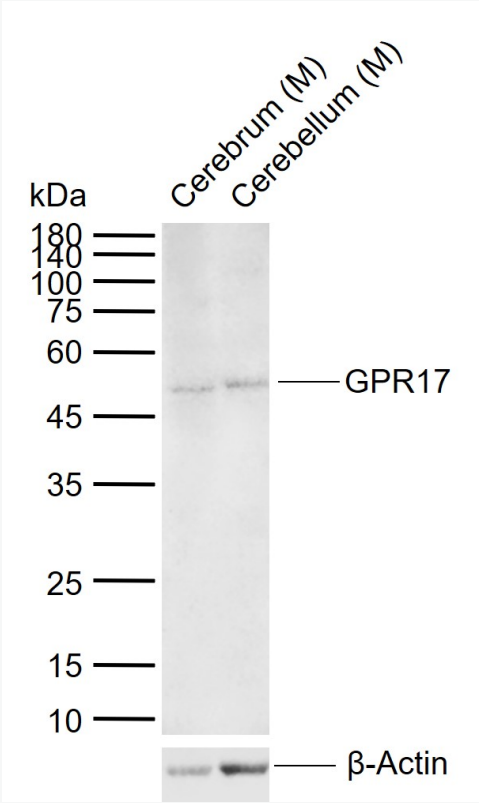
Unigene: 46453 Human

Unigene: 688940 Human

Unigene: 391108 Mouse

Unigene: 212749 Rat

Product Picture



Sample:

Lane 1: Mouse Cerebrum tissue lysates

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Lane 2: Mouse Cerebellum tissue lysates

Primary: Anti-GPR17 (SL12022R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 41 kDa

Observed band size: 50 kDa