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P2RY13 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1792a

Product Information

Application	WB, FC, E
Primary Accession	Q9BPV8
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2H1G9
Isotype	IgG1
Calculated MW	40789
Description	The product of this gene belongs to the family of G-protein coupled receptors. This family has several receptor subtypes with different pharmacological selectivity, which overlaps in some cases, for various adenosine and uridine nucleotides. This receptor is activated by ADP.
Immunogen	Purified recombinant fragment of human P2RY13 (AA: 1–49) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	53829
Other Names	P2Y purinoceptor 13, P2Y13, G-protein coupled receptor 86, G-protein coupled receptor 94, P2RY13, GPR86, GPR94
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	P2RY13 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	P2RY13
Synonyms	GPR86, GPR94
Function	Receptor for ADP. Coupled to G(i)-proteins. May play a role in hematopoiesis

and the immune system.

Cellular Location Cell membrane; Multi-pass membrane protein.

Tissue Location Strong expression in spleen and adult brain. Lower expression in placenta, lung, liver, spinal cord, thymus, small intestine, uterus, stomach, testis, fetal brain, and adrenal gland. Not detected in pancreas, heart, kidney, skeletal muscle, ovary or fetal aorta. Clearly detected in lymph node and bone marrow, weakly detected in peripheral blood mononuclear cells (PBMC) and in peripheral blood leukocytes (PBL), but not detected in polymorphonuclear cells (PMN). In the brain, detected in all brain regions examined

Background

Cell adhesion molecules (CAMs) are members of the immunoglobulin superfamily. This gene encodes a neuronal cell adhesion molecule with multiple immunoglobulin-like C2-type domains and fibronectin type-III domains. This ankyrin-binding protein is involved in neuron-neuron adhesion and promotes directional signaling during axonal cone growth. This gene is also expressed in non-neural tissues and may play a general role in cell-cell communication via signaling from its intracellular domain to the actin cytoskeleton during directional cell migration. Allelic variants of this gene have been associated with autism and addiction vulnerability. Alternative splicing results in multiple transcript variants encoding different isoforms. ;

References

1. J Pharmacol Exp Ther. 2002 May;301(2):705-13.2. Mol Biotechnol. 2008 Jul;39(3):239-64.

Images

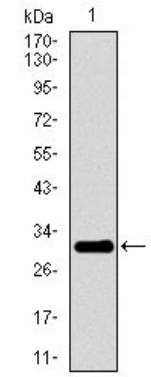


Figure 1: Western blot analysis using P2RY13 mAb against human P2RY13 recombinant protein. (Expected MW is 31.6 kDa)

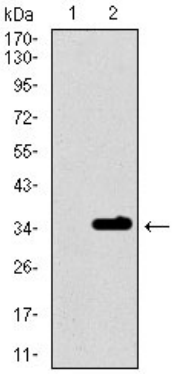
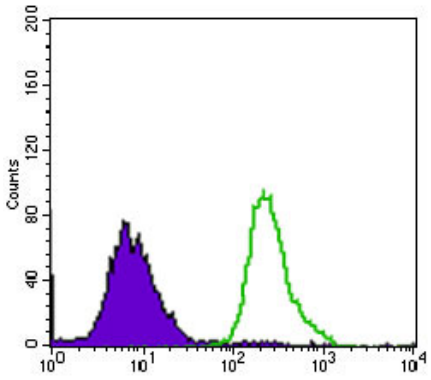


Figure 2: Western blot analysis using P2RY13 mAb against HEK293 (1) and P2RY13 (AA: 1–49)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4: Flow cytometric analysis of HepG2 cells using P2RY13 mouse mAb (green) and negative control (purple).



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