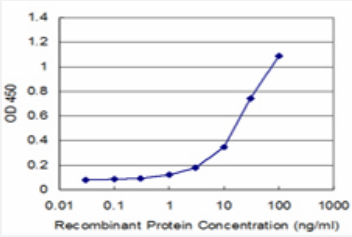
P2RY1 monoclonal antibody (M01), clone 4C2

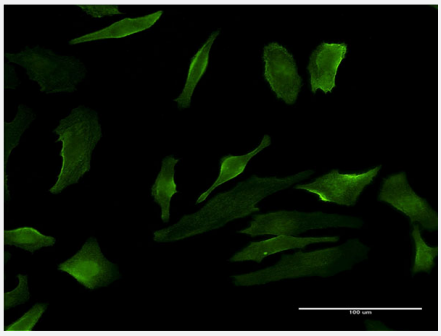
Catalog # H00005028-M01 Size 50 ug

Applications



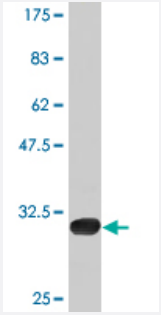
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged P2RY1 is approximately 1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to P2RY1 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (31.46 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant P2RY1.

Immunogen	P2RY1 (NP_002554, 1 a.a. ~ 52 a.a) partial recombinant protein with GST tag. MW of the GST tag a lone is 26 KDa.
Sequence	MTEVLWPAVPNGTDAAFLAGPGSSWGNSTVASTAAVSSSFKCALTKTGFQFY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (88); Rat (87)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.46 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged P2RY1 is approximately 1ng/ml as a capture antibody.

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to P2RY1 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — P2RY1

Entrez GeneID	5028
GeneBank Accession#	NM_002563
Protein Accession#	NP_002554

Gene Name	P2RY1
Gene Alias	P2Y1
Gene Description	purinergic receptor P2Y, G-protein coupled, 1
Omim ID	601167
Gene Ontology	Hyperlink
Gene Summary	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 functions as a receptor for extracellular ATP and ADP. In platelets binding to ADP leads to mobilization of intracellular calcium ions via activation of phospholipase C, a change in platelet shape, and probably to platelet aggregation. [provided by RefSeq
Other Designations	ATP receptor|P2 purinoceptor subtype Y1|P2Y purinoceptor 1|platelet ADP receptor|purinergic receptor P2Y1

Publication Reference

- Altered distribution of small-conductance calcium-activated potassium channel SK3 in Hirschsprung's disease.

  Coyle D, O'Donnell AM, Puri P.

  Journal of Pediatric Surgery 2015 Oct; 50(10):1659.

  Application: WB-Ce, Human, Colon sections, aganglionic specimen, ganglionic specimen

Pathway

- Neuroactive ligand-receptor interaction

Disease

- Atherosclerosis
- Cardiovascular Diseases
- Coronary Disease
- Diabetes Mellitus
- Edema

- HIV Infections
- Vascular Diseases