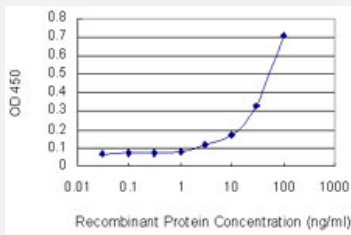


PDE5A monoclonal antibody (M01), clone 9H5

Catalog # H00008654-M01

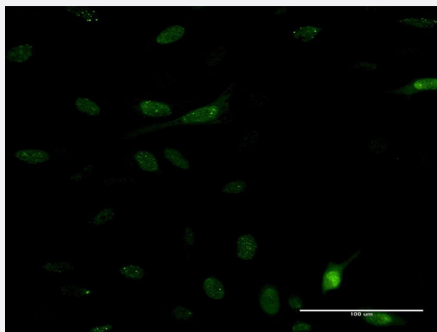
Size 100 ug

Applications



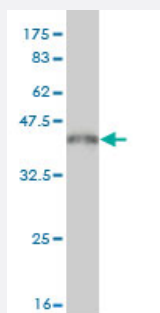
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PDE5A is 1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PDE5A on HeLa cell . [antibody concentration 20 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant PDE5A.

Immunogen	PDE5A (NP_001074, 29 a.a. ~ 138 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SVEAWLDDHWDFTFSYFVRKATREMVNAWFAERVHTIPVCKEGIRGHTESSCSCPLQQSPRADN SVPGTPTRKISASEFDRPLRPVVKDSEGTVSFLSDSEKKEQMPLTP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (88); Rat (86)
Isotype	IgG3 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 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 PDE5A is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PDE5A on HeLa cell . [antibody concentration 20 ug/ml]

Gene Info — PDE5A

Entrez GeneID [8654](#)

GeneBank Accession# [NM_001083](#)

Protein Accession#	NP_001074
Gene Name	PDE5A
Gene Alias	CGB-PDE, CN5A, PDE5, PDE5A1
Gene Description	phosphodiesterase 5A, cGMP-specific
Omim ID	603310
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cGMP-binding, cGMP-specific phosphodiesterase, a member of the cyclic nucleotide phosphodiesterase family. This phosphodiesterase specifically hydrolyzes cGMP to 5'-GMP. It is involved in the regulation of intracellular concentrations of cyclic nucleotides and is important for smooth muscle relaxation in the cardiovascular system. Alternative splicing of this gene results in three transcript variants encoding distinct isoforms. [provided by RefSeq]
Other Designations	cGMP-binding cGMP-specific 3',5'-cyclic nucleotide phosphodiesterase phosphodiesterase 5A

Publication Reference

- [Effects and mechanisms of action of sildenafil citrate in human chorionic arteries.](#)

Maharaj CH, O'Toole D, Lynch T, Carney J, Jarman J, Higgins BD, Morrison JJ, Laffey JG.

Reproductive Biology and Endocrinology 2009 Apr; 7:34.

Application: IF, IHC-Fr, WB, Plant, Freshly dissected chorionic plate arterial rings

Pathway

- [Purine metabolism](#)

Disease

- [Alcoholism](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Kidney Failure](#)

- [Liver Cirrhosis](#)
- [Nephrotic Syndrome](#)
- [Proteinuria](#)
- [Tobacco Use Disorder](#)