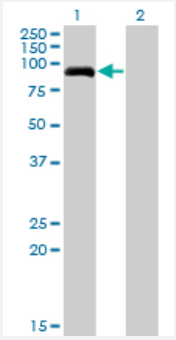
PDE8A monoclonal antibody (M02), clone 1H6

Catalog # H00005151-M02 Size 100 ug

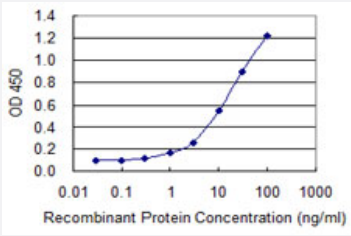
Applications



Western Blot (Transfected lysate)

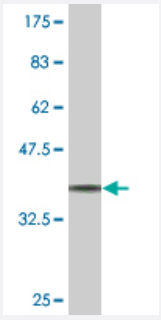
Western Blot analysis of PDE8A expression in transfected 293T cell line by PDE8A monoclonal antibody (M02), clone 1H6.

Lane 1: PDE8A transfected lysate(93.3 KDa).
Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PDE8A is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (35.64 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PDE8A.

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Immunogen	PDE8A (NP_002596.1, 32 a.a. ~ 121 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	RLPQGQKTAALPRTRGAGLLESELRDGSGKKVAVADVQFGPMRFHQDQLQVLLVFTKEDNQCN GFCRACEKAGFKCTVTKEAQAVLACFL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (81); Rat (82)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.64 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 (Transfected lysate)

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  Lane 1: PDE8A transfected lysate(93.3 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged PDE8A is 0.3 ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — PDE8A

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Entrez GeneID	5151
GeneBank Accession#	NM_002605
Protein Accession#	NP_002596.1
Gene Name	PDE8A
Gene Alias	FLJ16150, HsT19550
Gene Description	phosphodiesterase 8A
Omim ID	602972
Gene Ontology	Hyperlink
Gene Summary	Phosphodiesterases (PDEs) regulate the intracellular levels of cAMP and cGMP. These cyclic nucleotides play an important role as second messengers in multiple physiologic processes, including regulation of vascular resistance, cardiac output, visceral motility, immune response, inflammation, neuroplasticity, vision, and reproduction. PDEs comprise a large superfamily of enzymes divided into 10 families. Different PDEs can be distinguished by their structure, tissue expression, localization, substrate specificity, regulation, and sensitivity to PDE inhibitors. Diversity in structure and specificity of function make PDEs promising targets for the pharmacotherapy of diseases modulated by cyclic nucleotide signaling (Hetman et al., MIM 2000). See MIM 171885.[supplied by OMIM
Other Designations	OTTHUMP00000192898|cAMP-specific cyclic nucleotide phosphodiesterase 8A|high-affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A

Pathway

- Purine metabolism

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Polycystic Ovary Syndrome

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