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## PDE7A Polyclonal Antibody

YP-Ab-05637
IgG
Human;Rat;Mouse
WB;ELISA
PDE7A
High affinity cAMP-specific 3',5'-cyclic phosphodiesterase 7A (EC 3.1.4.17) (HCP1) (TM22)
Synthesized peptide derived from part region of human protein
PDE7A Polyclonal Antibody detects endogenous levels of protein.
Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Polyclonal, Rabbit,IgG
The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
WB 1:500-2000 ELISA 1:5000-20000
1 mg/ml
≥90%
-20°C/1 year
53kD
[Isoform PDE7A1]: Cytoplasm, cytosol . PDE7A1 (57 kDa) is located mostly to soluble cellular fractions; [Isoform PDE7A2]: Cytoplasm . PDE7A2 (50 kDa) is located to particulate cellular fractions
[Isoform PDE7A1]: Found at high levels in skeletal muscle and at low levels in a variety of tissues including brain and heart (PubMed:9195912). It is expressed as well in two T-cell lines (PubMed:9195912).; [Isoform PDE7A2]: Found abundantly in skeletal muscle and at low levels in heart.
catalytic activity:Adenosine 3',5'-cyclic phosphate + H(2)O = adenosine 5'-phosphate.,cofactor:Divalent cations.,developmental stage:Developmentally regulated. PDE7A1 and PDE7A2 are found in several fetal tissues, expression is reduced throughout development. It persists strongly only in adult skeletal muscle.,domain:Composed of a C-terminal catalytic domain containing two putative divalent metal sites and an N-terminal regulatory domain.,enzyme regulation:Insensitive to all selective PDE inhibitors.,function:Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase is highly specific for cAMP and may have a role in muscle signal transduction.,pathway:Purine metabolism; cAMP degradation; AMP from cAMP: step 1/1.,similarity:Belongs to the cyclic nucleotide phosphodiesterase family.,subcellular location:PDE7A1 (57 kDa) i



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Background	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE7 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2011],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images