



PDE7A Monoclonal Antibody

Immunogen Synthesized peptide derived from part region of human protein Specificity PDE7A Monoclonal Antibody detects endogenous levels of protein. Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide. Source Monoclonal, Mouse, IgG Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB 1:500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band 53kD Cell Pathway [Isoform PDE7A1]: Cytoplasm, cytosol . PDE7A1 (57 kDa) is located mostli soluble cellular fractions; [Isoform PDE7A2]: Cytoplasm . PDE7A2 (50 kD located to particulate cellular fractions Tissue Specificity [Isoform PDE7A1]: Found at high levels in skeletal muscle and at low levels variety of tissues including brain and heart (PubMed:9195912). It is express well in two T-cell lines (PubMed:9195912). [Isoform PDE7A2]: Found abusin skeletal muscle and at low levels in heart. Function catalytic activity: Adenosine 3',5'-cyclic phosphate + H(2)O = adenosine 5'-phosphate, cofactor:Divalent cations, developmental stage:Development regulated. PDE7A1 and PDE7A2 are found in several fetal tissues, express 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		
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	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
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

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