SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PDE7B antibody

Catalog Number: SL11576R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PDE7B
Immunogen:	KLH conjugated synthetic peptide derived from human PDE7B: 281-360/450
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat
Predicted MW.:	52kDa
Subcellular Location:	cytoplasmic
Background:	Phosphodiesterases (PDE, also designated cyclic nucleotide phosphodiesterase) are important for the downregulation of the intracellular level of the second messenger cyclic adenosine monophosphate (cAMP) by hydrolyzing cAMP to 5'AMP. Phosphodiesterase type 3 isoforms, PDE3A and 3B, are expressed primarily in cardiovascular tissue and adipose tissue, respectively. PDE3A, is found in myocardium and platelets and PDE3B is found in lymphocytes. The PDE7A1 (HCP1) isozyme and the PDE7A2 proteins, alternate splice products of PDE7A, are highly expressed in skeletal muscle. PDE7B is most highly expressed in pancreas. The PDE family contains proteins that serve tissue-specific roles in regulation of lipolysis, glycogenolysis, myocardial contractility, and smooth muscle relaxation. **Function:** PDE7B is a cAMP specific phosphodiesterase. The cAMP-specific phosphodiesterase type-7 (PDE7) family is comprised of 2 genes (PDE7A and PDE7B) each with multiple splice variants generated by RNA splicing and use of alternate initiation sites. PDE7B has three splice variants (PDE7B1 = 446

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	amino acid; PDE7B2 =359 amino acids and PDE7B3 = 459 amino acids. Both PDE7B2 ad PDE7B3 posses unique N-terminal sequences. PDE7B is expressed in various tissues including skeletal muscle, heart, lung and testis. PDE7B may be involved in the control of cAMP-mediated neural activity and cAMP metabolism in the brain. **Tissue Specificity:** Highly expressed in brain. Also expressed in heart, liver, skeletal muscle and pancreas. **Similarity:** Belongs to the cyclic nucleotide phosphodiesterase family. PDE7 subfamily. **Database links:** **Entrez Gene:** 27115 Human **Entrez Gene:** 29863 Mouse **Entrez Gene:** 140929 Rat Omim: 604645 Human **SwissProt:** Q9NP56 Human **SwissProt:** Q9QXQ1 Mouse **Unigene:** 153615 Rat

[VALIDATION IMAGES]

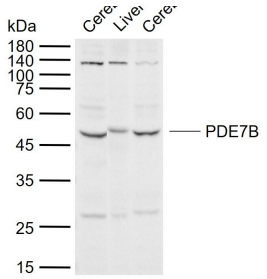


Figure 1. Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Liver tissue lysates Lane 3: Rat Cerebrum tissue lysates Primary: Anti-PDE7B (SL11576R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kDa Observed band size: 50 kDa

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