



# Anti-PDE7A (aa 18-117) polyclonal antibody (DPAB-DC2184)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Immunogen</b>	PDE7A (NP_002594, 18 a.a. ~ 117 a.a) partial recombinant protein with GST tag. The sequence is TSKRRGAISYDSSDQTALYIRMLGDVRVRSRAGFESERRGSHPYIDFRIFHSQSEIEVSV SARNIRLLSFQRYLRSSRFFRGTAVSNSLNILDDDYNGQ
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PDE7A phosphodiesterase 7A [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PDE7A
<b>Synonyms</b>	PDE7A; phosphodiesterase 7A; HCP1; PDE7; high affinity cAMP-specific 3,5-cyclic phosphodiesterase 7A; TM22; phosphodiesterase isozyme 7;
<b>Entrez Gene ID</b>	<a href="#">5150</a>
<b>Protein Refseq</b>	<a href="#">NP_001229247</a>
<b>UniProt ID</b>	<a href="#">Q13946</a>
<b>Chromosome Location</b>	8q13
<b>Pathway</b>	G Protein Signaling Pathways; GPCR downstream signaling; Morphine addiction; Purine metabolism
<b>Function</b>	3,5-cyclic-AMP phosphodiesterase activity; metal ion binding;