

**AP00424PU-N****Polyclonal Antibody to Phosphodiesterase 9A (PDE9A) (Internal)  
- Aff - Purified**

<b>Alternate names:</b>	CGMP-specific phosphodiesterase type 9, EC 3.1.4.35, HSPDE9A2, pde9A1, pde9a, pde9a2, pde9a3, pde9a4
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	Phosphodiesterase 9A is a cGMP-specific phosphodiesterase. PDE9A activity is inhibited by zaprinast, but it is insensitive to rolipram, vinpocetine, SKF-94120, dipyridamole, and IBMX. More than 20 alternatively spliced variants have been reported (Rentero et al. 2003). PDE9A has been implicated in penile erectile dysfunction, as well as in functional disturbances in which intraneuronal signal transmission via second messengers are important in the pathophysiology (example, bipolar affective disorder). PDE9A is the only cGMP-specific PDE with significant expression in the forebrain, and as such is likely to function in NO-cGMP signaling.
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Synthetic peptide corresponding to internal domain of human PDE9A - KLH conjugated <b>Genename:</b> PDE9A
<b>Format:</b>	<b>State:</b> Liquid <b>Purification:</b> Peptide immunogen affinity column. <b>Buffer System:</b> Phosphate buffered saline, PH 7.7 containing 0.01% sodium azide.
<b>Applications:</b>	<b>Immunohistochemistry on Paraffin Sections:</b> 20 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects Phosphodiesterase 9A. Mouse Identity: 94 % Mouse Similarity: 100 % Rat Identity: 88 % Rat Similarity: 100 % <b>Species:</b> Human, Mouse, Rat. Other species not tested.
<b>Storage:</b>	Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Pictures:**

Immunohistochemistry Image: Spleen,  
stained with AP00424PU-N

