

## Product datasheet for **AM31702PU-N**

### **PDE9A Mouse Monoclonal Antibody [Clone ID: 4E1]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	4E1
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant protein
Specificity:	This antibody reacts to PDE9A.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phosphodiesterase 9A
Database Link:	<a href="#">Entrez Gene 5152 Human O76083</a>



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**Background:**

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.

**Synonyms:**

Phosphodiesterase 9A, Phosphodiesterase PDE9A21, HSPDE9A2

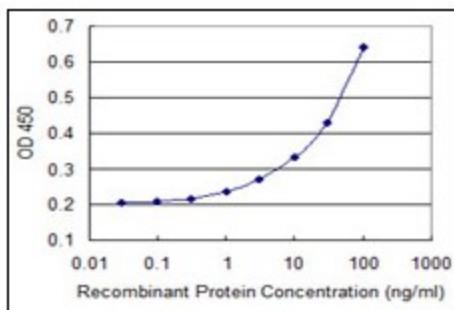
**Protein Families:**

Druggable Genome

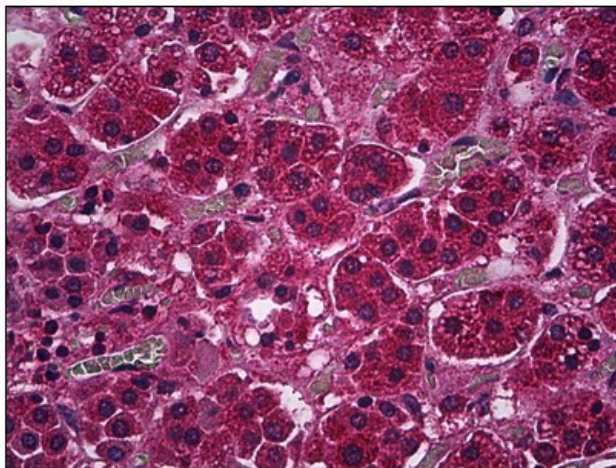
**Protein Pathways:**

Pregnane-mediated oocyte maturation, Purine metabolism

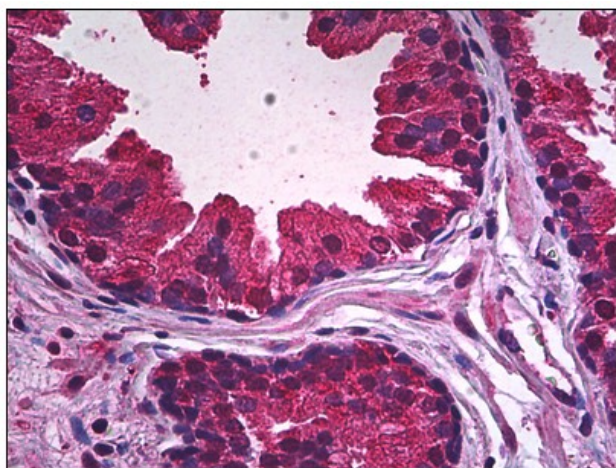
**Product images:**



Detection limit for recombinant GST tagged PDE9A is 1 ng/ml as a capture antibody.



Human Adrenal Cortex: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Prostate, Epithelium: Formalin-Fixed, Paraffin-Embedded (FFPE)