

## Rabbit Polyclonal Anti-PDE8B antibody

Catalog Number: PD8B-201AP

Lot Number: 194.PB4.IG

### General Information

<b>Product</b>	PDE8B Antibody
<b>Description</b>	Pan Phosphodiesterase 8B Antibody
<b>Verified Applications</b>	CM, ELISA, ICC, IF, IHC, IP, WB
<b>Species Cross Reactivity</b>	Bovine, Human, Monkey, Mouse, Rat
<b>Host</b>	Rabbit
<b>Immunogen</b>	Synthetic cyclic peptide common to all PDE8B variants.
<b>Alternative Nomenclature</b>	3' 5' cyclic nucleotide phosphodiesterase 8B antibody, Cell proliferation-inducing gene 22 protein antibody, FLJ11212 antibody, High affinity cAMP specific and IBMX insensitive 3' 5' cyclic phosphodiesterase 8B antibody, HsPDE8B antibody, PIG22 antibody

### Physical Properties

<b>Quantity</b>	100 µg
<b>Volume</b>	200 µl
<b>Form</b>	Affinity Purified Immunoglobulins
<b>Immunoglobulin &amp; Concentration</b>	0.50 mg/ml IgG in antibody stabilization buffer
<b>Storage</b>	Store at -20°C for long term storage.

### Recommended Dilutions

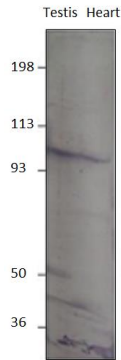
<b>DOT Blot</b>	1:10,000
<b>ELISA</b>	1:10,000
<b>Immunocytochemistry</b>	1:200
<b>Immunofluorescence</b>	1:200
<b>Immunohistochemistry</b>	1:200
<b>Immunoprecipitation</b>	1:250
<b>Western Blot</b>	1:500-1:2,000

### Related Products

### Catalog #

<b>BIOTIN-Conjugated</b>	PD8B-BIOTIN
<b>FITC-Conjugated</b>	PD8B-FITC
<b>Antigenic Blocking Peptide</b>	P-PD8B
<b>Western Blot Positive Control</b>	PC-PD8B
<b>PDE8A Antibody</b>	PD8A-101AP

## Application Verification:



WB of PD8B-201AP with rat testis and heart. 1:300 antibody, dilution in DiluObuffer.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

## Overview:

Cyclic nucleotides are important intracellular second messengers which play roles in a variety of signal transduction process. The cyclic nucleotides are hydrolyzed and compartmentalized by a family of enzymes called phosphodiesterases. One of the many phosphodiesterases that compartmentalized and hydrolyze cAMP in to AMP are phosphodiesterase type 8. The cAMP-specific phosphodiesterase type-8 (PDE8) family is comprised of 2 genes (PDE8A and PDE8B) each with multiple splice variants generated by RNA splicing and use of alternate initiation sites (1). PDE8 family is a high affinity cAMP-specific, IBMX sensitive PDE. Like other PDEs, human PDE8A has 713 amino acids and migrate at apparent 100 kDa on reduced and non-reduced SDS-PAGE. The PDE8 has a significant conserved region of about 270 amino acids common to all PDEs at the carboxy terminal apparently serves as the catalytic domain. The amino-terminal region of this protein is divergent and presumably accounts for the distinctive and regulatory properties unique to the individual PDE families. PDE8A protein showed significant homology to other cAMP-dependent PDEs (23%) with in the catalytic domain. PDE8A is widely expressed in various tissues in contrast to PDE8B that is exclusively expressed in thyroid gland. The PDE8A transcripts are found in brain, pancreas, placenta, thyroid, spleen, trachea, prostate, and uterus.

FabGennix PDE-selective antibodies are directed against a particular family, or a member of the subtype or to a family-subtype-variant. Our wide selection of PDE antibodies allows detailed analysis of cyclic nucleotide signaling pathways. The PDE8B-selective antibodies were generated against a common sequence near the C-terminal end that is unique to PDE8B family members. The polyclonal antibody PD8B-201AP labels a 98-102 kDa PDE8B using Western blot positive controls or in rat testis and heart. The PDE8B-specific antiserum has no cross reactivity against PDE8A protein or any other PDE family members. The antibodies to PDE8B can be conjugated to fluorophores and other secondary enzymes as an additional service. Western blot positive control in ready-to-use SDS-sample buffer (PC-PD8B) and antigenic blocking peptides (P-PD8B) are available. For a complete listing of all FabGennix antibodies and services please visit [www.FabGennix.com](http://www.FabGennix.com).

### References:

1. Hayashi M. Molecular cloning and characterization of human PDE isozymes of 3', 5'-cyclic nucleotide phosphodiesterase. Pharmacol. Toxicol. Pater session.
2. Farooqui S. M. Hamdi A., Brock J., Prasad C. J. Neurochem 57;1363-369, 1991.

\* For users who may require large amounts of the products listed above, please inquire about bulk material discounts.  
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.