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[Marker Primary Antibody]

Rabbit Anti-PDE9A/Biotin Conjugated antibody

Catalog Number: SL12589R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-PDE9A/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human PDE9A
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Pig,Cow,Sheep)
Background:	background: The protein encoded by this gene catalyzes the hydrolysis of cAMP and cGMP to their corresponding monophosphates. The encoded protein plays a role in signal transduction by regulating the intracellular concentration of these cyclic nucleotides. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] **Function:** Hydrolyzes the second messenger cGMP, which is a key regulator of many important physiological processes. **Subcellular Location:** Cytoplasm. Endoplasmic reticulum; Cell projection > ruffle membrane. Cytoplasm > perinuclear region and Cell projection > ruffle membrane. Cytoplasm > perinuclear region. Golgi apparatus. Endoplasmic reticulum. **Tissue Specificity:** Expressed in all tissues examined (testis, brain, small

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	intestine, skeletal muscle, heart, lung, thymus, spleen, placenta, kidney, liver, pancreas, ovary and prostate) except blood. Highest levels in brain, heart, kidney, spleen, prostate and colon. Isoform PDE9A12 is found in prostate. **Similarity:** Belongs to the cyclic nucleotide phosphodiesterase family. PDE9 subfamily. **Database links:** **Entrez Gene:** 5152 Human **Entrez Gene:** 18585 Mouse **Entrez Gene:** 191569 Rat GenBank: NP_001001567.1 Human Omim: 602973 Human **SwissProt:** O76083 Human **SwissProt:** O76083-2 Human **SwissProt:** O70628 Mouse **Unigene:** 473927 Human **Unigene:** 10812 Mouse **Unigene:** 20981 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.