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[Marker Primary Antibody]

Rabbit Anti-PDE9A/FITC Conjugated antibody

Catalog Number: SL12589R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-PDE9A/FITC
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:	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 intestine, skeletal muscle, heart, lung, thymus, spleen, placenta, kidney, liver, pancreas, ovary and prostate) except blood. Highest levels in brain, heart,

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	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.