

Rabbit anti-Human, Mouse PDE10A Polyclonal Antibody | anti-PDE10A antibody

Anti-PDE10A Antibody

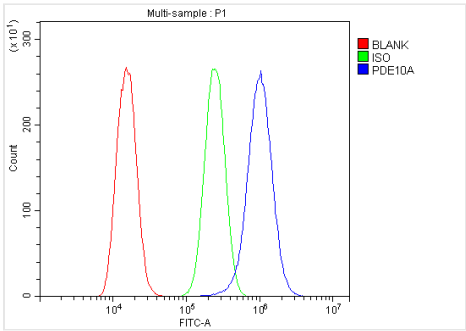
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125667	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PDE10A; Polyclonal Antibody; Anti-PDE10A Antibody; cAMP and cAMP-inhibited cGMP 3'; 5'-cyclic phosphodiesterase 10A; phosphodiesterase 10A; anti-PDE10A antibody

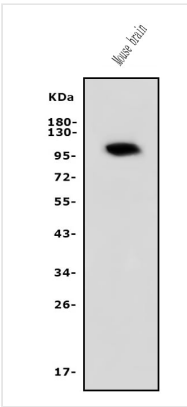
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PDE10A detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-PDE10A antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human PDE10A recombinant protein (Position: H515-D779).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-PDE10A antibody (AAA125667).Overlay histogram showing A549 cells stained with AAA125667 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PDE10A Antibody (AAA125667, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PDE10A using anti-PDE10A antibody (AAA125667).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-PDE10A antigen affinity purified polyclonal antibody (Catalog # AAA125667) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG- HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PDE10A at approximately 100KD. The expected band size for PDE10A is at 100KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PDE10A antibody	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase family. It plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This protein can hydrolyze both cAMP and cGMP to the corresponding nucleoside 5' monophosphate, but has higher affinity for cAMP, and is more efficient with cAMP as substrate. Alternatively spliced transcript variants have been described for this gene.
References	1. Diggle, C. P., Sukoff Rizzo, S. J., Popiolek, M., Hinttala, R., Schulke J. -P., Kurian, M. A., Carr, I. M., Markham, A. F., Bonthron, D. T., Watson, C., Sharif, S. M., Reinhart, V., and 30 others. Biallelic mutations in PDE10A lead to loss of striatal PDE10A and a hyperkinetic movement disorder with onset in infancy. Am. J. Hum. Genet. 98: 735-743, 2016. 2. Fujishige, K., Kotera, J., Michibata, H., Yuasa, K., Takebayashi, S., Okumura, K., Omori, K. Cloning and characterization of a novel human phosphodiesterase that hydrolyzes both cAMP and cGMP (PDE10A). J. Biol. Chem. 274: 18438-18445, 1999. 3. Fujishige, K., Kotera, J., Yuasa, K., Omori, K. The human phosphodiesterase PDE10A gene: genomic organization and evolutionarily relatedness with other PDEs containing GAF domains. Europ. J. Biochem. 267: 5943-5951, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49168618
NCBI GeneID	10846
UniProt Accession #	Q9Y233; Q6FHX1; Q9HCP9; Q9NTV4; Q9ULW9; Q9Y5T1
Molecular Weight	89,390 Da
NCBI Official Full Name	PDE10A
NCBI Official Synonym Full Names	phosphodiesterase 10A
NCBI Official Symbol	PDE10A
NCBI Official Synonym Symbols	HSPDE10A

NCBI Protein Information	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A; dJ416F21.1 (phosphodiesterase 10A); phosphodiesterase 10A1 (PDE10A1)
UniProt Protein Name	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A
UniProt Gene Name	PDE10A
UniProt Entry Name	PDE10_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pde10a-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125667>