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

PDE10A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322586	**Rabbit**	**Human, Mouse**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

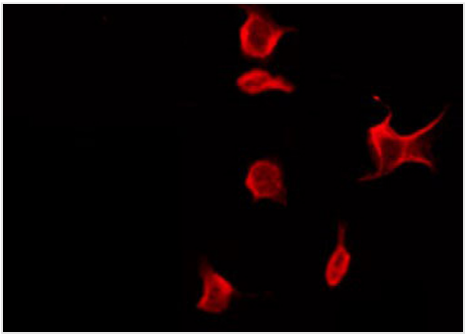
PRODUCT SYNONYMS

PDE10A; Polyclonal Antibody; PDE10A Antibody; 5''-cyclic phosphodiesterase 10A; cAMP and cAMP inhibited cGMP 3'5' cyclic phosphodiesterase 10A; cAMP and cAMP-inhibited cGMP 3''; FLJ11894; HSPDE 10A; HSPDE10A; PDE 10A; PDE10_HUMAN; Pde10a; Phosphodiesterase 10A; Phosphodiesterase 10A1; anti-PDE10A antibody

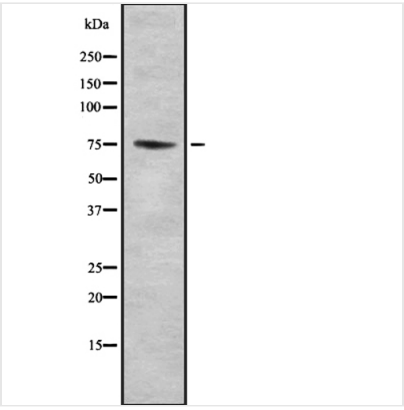
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	PDE10A antibody detects endogenous levels of total PDE10A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	789
Applicable Applications for anti-PDE10A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PDE10A
Subcellular Location	Cytoplasm. Located mostly to soluble cellular fractions.
Tissue Specificity	Abundant in the putamen and caudate nucleus regions of brain and testis, moderately expressed in the thyroid gland, pituitary gland, thalamus and cerebellum.
Predicted Cross Reactivity	**Pig, Horse, Sheep, Rabbit, Dog, Chicken**
Similarity	Pig (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (91%), Chicken (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA322586 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of PDE10A using HeLa whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-PDE10A antibody	Function: Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. Can hydrolyze both cAMP and cGMP, but has higher affinity for cAMP and is more efficient with cAMP as substrate. May play a critical role in regulating cAMP and cGMP levels in the striatum, a region of the brain that contributes to the control of movement and cognition. Subunit Structure: Homodimer. Post-translational Modifications: Isoform PDE10A2: Phosphorylated on Thr-16. Similarity: The tandem GAF domains bind cAMP, and regulate enzyme activity. The binding of cAMP stimulates enzyme activity.Composed of a C-terminal catalytic domain containing two divalent metal sites and an N-terminal regulatory domain which contains one cyclic nucleotide-binding region. Belongs to the cyclic nucleotide phosphodiesterase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194595488
NCBI GeneID	10846
NCBI Accession #	NP_001124162.1
NCBI GenBank Nucleotide #	NM_001130690.2
UniProt Accession #	Q9Y233; Q6FHX1; Q9HCP9; Q9NTV4; Q9ULW9; Q9Y5T1
Molecular Weight	Observed: 75 kDa Predicted: 89 kDa
NCBI Official Full Name	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A isoform 1
NCBI Official Synonym Full Names	phosphodiesterase 10A
NCBI Official Symbol	PDE10A
NCBI Official Synonym Symbols	ADSD2; IOLOD; HSPDE10A; PDE10A19; LINC00473
NCBI Protein Information	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A
UniProt Protein Name	cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A
UniProt Gene Name	**PDE10A**

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.