10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PDE10A (8E18) Rabbit Monoclonal Antibody

PDE10A (8E18) Rabbit Monoclonal Antibody
Catalog # AP93751

Product Information

Application	WB, IP
Primary Accession	Q9Y233, Q8CA95, Q9QYJ6
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Calculated MW	114946

Additional Information

Gene ID	10846
Dilution	WB~~1:1000 IP~~N/A
Storage Conditions	-20℃

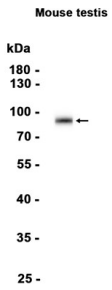
Protein Information

Name	PDE10A
Function	Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides (PubMed:10373451, PubMed:10393245, PubMed:16330539, PubMed:17389385, PubMed:27058447). Can hydrolyze both cAMP and cGMP, but has higher affinity for cAMP and is more efficient with cAMP as substrate (PubMed:10373451, PubMed:10393245, PubMed:17389385, PubMed:27058447). 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 (PubMed:27058447).
Cellular Location	Cytoplasm, cytosol
Tissue Location	Abundant in the putamen and caudate nucleus regions of brain and testis, moderately expressed in the thyroid gland, pituitary gland, thalamus and cerebellum.

Background

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. [provided by RefSeq, Dec 2011]

Images



Western blot analysis of extracts from Mouse testis tissue using AP93751 at 1:1000.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.