

Datasheet for ABIN7601943  
**anti-PDE10A antibody (AA 515-779)**



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## Overview

Quantity:	100 µg
Target:	PDE10A
Binding Specificity:	AA 515-779
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDE10A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

## Product Details

Purpose:	Anti-PDE10A Antibody Picoband®
Immunogen:	E.coli-derived human PDE10A recombinant protein (Position: H515-D779).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PDE10A Antibody Picoband® (ABIN7601943). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

## Target Details

Target:	PDE10A
Alternative Name:	PDE10A ( <a href="#">PDE10A Products</a> )
Background:	<p>Synonyms: Homeobox protein SIX3, Sine oculis homeobox homolog 3, SIX3,</p> <p>Tissue Specificity: Highly expressed in placenta, lung, kidney, testis and ovary. Weakly expressed in spleen and thymus. Not expressed in peripheral blood lymphocytes. Detected in hippocampus.</p> <p>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.</p>
Molecular Weight:	100 kDa
Gene ID:	10846
UniProt:	<a href="#">Q9Y233</a>
Pathways:	<a href="#">cAMP Metabolic Process</a>

## Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Mouse</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>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. <i>Am. J. Hum. Genet.</i> 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). <i>J. Biol. Chem.</i> 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. <i>Europ. J. Biochem.</i> 267: 5943-5951, 2000.</p>
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.