# PDE10A Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | PDE10A, Monoclonal Antibody |
| **Full Product Name** | PDE10A (cAMP and cAMP-inhibited cGMP 3',5'-cyclic Phosphodiesterase 10A, FLJ11894, FLJ25677, HSPDE10A) (MaxLight 490) |
| **Product Gene Name** | anti-PDE10A antibody |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1,k |
| **Clone Number** | 4E1 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human PDE10A. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 89,390 Da |
| **OMIM** | 610652 |
| **3D Structure** | ModBase 3D Structure for Q9Y233 |
| **Immunogen** | Partial recombinant corresponding to aa242-333 from human PDE10A (NP_006652) with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | GLAKQTELNDFLLDVSKTYFDNIVAIDSLLEHIMIYAKNLVNADRCALFQVDHKNKELYSDLFDIGEEKEGKPVFKKTKEIRFSIEKGIAGQ |
| **Conjugate** | MaxLight490 |
| **Product Categories/Family for anti-PDE10A antibody** | Antibodies; Enzymes; Phosphodiesterase |
| **Applications Tested/Suitable for anti-PDE10A antibody** | FLISA |
| **Application Notes for anti-PDE10A antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-PDE10A antibody** | 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. |
| **Other Notes** | Small volumes of anti-PDE10A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for PDE10A purchase** | MBS6202384 is an antibody targeting PDE10A. Also known as PDE10A (cAMP and cAMP-inhibited cGMP 3',5'-cyclic Phosphodiesterase 10A, FLJ11894, FLJ25677, HSPDE10A) (MaxLight 490). Reactive in Human. Host: Mouse. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDE10A. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 5729972 |
| **NCBI GeneID** | 10846 |
| **NCBI Accession #** | NP_006652 |
| **UniProt Primary Accession #** | Q9Y233 |
| **UniProt Secondary Accession #** | Q6FHX1; Q9HCP9; Q9NTV4; Q9ULW9; Q9Y5T1 |
| **UniProt Related Accession #** | Q9Y233 |
| **GenBank Nucleotide #** | NM_006661 |
| **NCBI Official Full Name** | cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A isoform 2 |
| **NCBI Official Synonym Full Names** | phosphodiesterase 10A |
| **NCBI Official Symbol** | PDE10A |
| **NCBI Official Synonym Symbols** | HSPDE10A |
| **UniProt Protein Name** | cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A |
| **Protein Family** | cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase |
| **UniProt Gene Name** | PDE10A |
| **UniProt Entry Name** | PDE10_HUMAN |
| **NCBI Protein Information** | cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A |
| **NCBI Summary for PDE10A** | 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] |
| **UniProt Comments for PDE10A** | PDE10A: 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. Belongs to the cyclic nucleotide phosphodiesterase family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: EC 3.1.4.35; Nucleotide Metabolism - purine; EC 3.1.4.17; Phosphodiesterase<br><br>Chromosomal Location of Human Ortholog: 6q26<br><br>Cellular Component: cytosol<br><br>Molecular Function: 3',5'-cyclic-GMP phosphodiesterase activity; metal ion binding; cGMP-stimulated cyclic-nucleotide phosphodiesterase activity; cGMP binding; cAMP binding; 3',5'-cyclic-nucleotide phosphodiesterase activity<br><br>Biological Process: cAMP catabolic process; cGMP catabolic process; signal transduction; blood coagulation |
| **Research Articles on PDE10A** | **1.** Data provide evidence that PDE10 is involved in colon tumorigenesis and show its overexpression in colon tumor cells compared with colonocytes. |
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