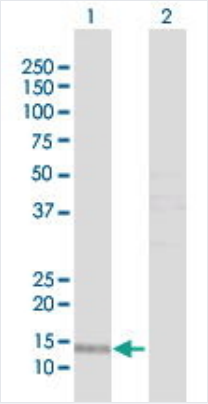
PTS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTS, Polyclonal Antibody
Full Product Name	PTS (6-pyruvoyl Tetrahydrobiopterin Synthase, PTP Synthase, PTPS, FLJ97081) APC
Product Gene Name	anti-PTS antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PTS.
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 amo assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	16,386 Da
OMIM	261640
3D Structure	ModBase 3D Structure for Q03393
Immunogen	Full length human PTS, aa1-145 (NP_000308.1).
Immunogen Sequence	MSTEGGGRRCQAQVSRRISFSASHRLYSKFLSDEENLKLFGKCNNPNGHGHNYKVVVTVHGEIDPATGMVMNLADLKKYMEEAIMQPLDHKNLDMDVP
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-PTS antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-PTS antibody	Western Blot (WB)
Application Notes for anti-PTS antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PTS antibody	6-Pyruvoyltetrahydropterin synthase (PTS), also known as PTPS, belongs to the family of lyases, specifically those carbon-oxygen lyases acting on ph of inorganic triphosphate from dihydroneopterin triphosphate, which is the second and irreversible step in the biosynthesis of tetrahydrobiopterin from G cofactor and regulator of various enzyme activities, including enzymes involved in serotonin biosynthesis and NO synthase activity. Mutations in this ge
Other Notes	Small volumes of anti-PTS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar 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 PTS purchase	MBS6391485 is an antibody targeting PTS. Also known as PTS (6-pyruvoyl Tetrahydrobiopterin Synthase, PTP Synthase, PTPS, FLJ97081) APC. Rea



Western Blot (WB) of anti-PTS antibody
Western Blot analysis of PTS expression in transfected 293T cell line by PTS polyclonal antibody. Lane 1: PTS transfected lysate (16.4kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

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

NCBI GI #	4506331
NCBI GeneID	5805
NCBI Accession #	NP_000308.1
UniProt Primary Accession #	Q03393
UniProt Secondary Accession #	Q8WVG8; B0YJ87
UniProt Related Accession #	Q03393
GenBank Nucleotide #	NM_000317.1
NCBI Official Full Name	6-pyruvoyl tetrahydrobiopterin synthase
NCBI Official Synonym Full Names	6-pyruvoyltetrahydropterin synthase
NCBI Official Symbol	PTS
NCBI Official Synonym Symbols	PTPS
UniProt Protein Name	6-pyruvoyl tetrahydrobiopterin synthase
Protein Family	6-pyruvoyl tetrahydrobiopterin synthase
UniProt Gene Name	PTS
UniProt Synonym Gene Names	PTP synthase; PTPS
UniProt Entry Name	PTPS_HUMAN
NCBI Protein Information	6-pyruvoyl tetrahydrobiopterin synthase; PTP synthase
NCBI Summary for PTS	The enzyme encoded by this gene catalyzes the elimination of inorganic triphosphate from dihydroneopterin triphosphate, which is the second and irreversible step in the biosynthesis of tetrahydrobiopterin from GTP. Tetrahydrobiopterin, also known as BH(4), is an essential cofactor and regulator of various enzyme activities, including enzymes involved in serotonin biosynthesis and NO synthase activity. Mutations in this gene result in hyperphenylalaninemia. [provided by RefSeq, Oct 2008]

UniProt Comments for PTS	PTS: Involved in the biosynthesis of tetrahydrobiopterin, an essential cofactor of aromatic amino acid hydroxylases. Catalyzes the transformation of 7,8-dihydroneopterin triphosphate into 6- pyruvoyl tetrahydropterin. Defects in PTS are the cause of BH4-deficient hyperphenylalaninemia type A (HPABH4A); also called 6-pyruvoyl-tetrahydropterin synthase deficiency (PTS deficiency) or hyperphenylalaninemia tetrahydrobiopterin-deficient due to PTS deficiency. HPABH4A is an autosomal recessive disorder characterized by depletion of the neurotransmitters dopamine and serotonin, and clinically by severe neurological symptoms unresponsive to the classic phenylalanine-low diet. Belongs to the PTPS family. Protein type: Lyase; Mitochondrial; Cofactor and Vitamin Metabolism - folate biosynthesis; EC 4.2.3.12 Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: mitochondrion; cytoplasm; cytosol Molecular Function: identical protein binding; protein homodimerization activity; metal ion binding; 6-pyruvoyltetrahydropterin synthase activity Biological Process: amino acid metabolic process; tetrahydrobiopterin biosynthetic process; central nervous system development; regulation of nitric-oxide synthase activity; nitric oxide metabolic process Disease: Hyperphenylalaninemia, Bh4-deficient, A
Research Articles on PTS	**1.** Severe neurological impairment from BH4 deficiency could be prevented by newborn screening for hyperphenylalaninemia (HPA) and proper metabolic management.
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