ATPGD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATPGD1, Polyclonal Antibody
Full Product Name	ATPGD1, NT (CARNS1, ATPGD1, KIAA1394, Carnosine synthase 1, ATP-grasp domain-containing protein 1) (MaxLight 490)
Product Gene Name	anti-ATPGD1 antibody
Product Synonym Gene Name	CARNS1
Product Synonym Names	CARNS1; ATPGD1; KIAA1394; Carnosine synthase 1; ATP-grasp domain-containing protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
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.
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	101,320 Da
OMIM	613368
3D Structure	ModBase 3D Structure for A5YM72
Immunogen	ATPGD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 246-276 amino acids from the N-terminal region of human ATPGD1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ATPGD1 antibody	Antibodies; KIAA; orf
Applications Tested/Suitable for anti-ATPGD1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ATPGD1 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ATPGD1 antibody	CARNS1 (EC 6.3.2.11), a member of the ATP-grasp family of ATPases, catalyzes the formation of carnosine (beta-alanyl-L-histidine) and homocarnosine (gamma-aminobutyryl-L-histidine), which are found mainly in skeletal muscle and the central nervous system, respectively (Drozak et al., 2010 [PubMed 20097752]).
Product References and Citations for anti-ATPGD1 antibody	Drozak, J., et al. J. Biol. Chem. 285(13):9346-9356(2010).

Other Notes	Small volumes of anti-ATPGD1 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 ATPGD1 purchase	MBS6276772 is an antibody targeting ATPGD1. Also known as ATPGD1, NT (CARNS1, ATPGD1, KIAA1394, Carnosine synthase 1, ATP-grasp domain-containing protein 1) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATPGD1. It may not necessarily be applicable to this product.

NCBI GI #	148839342
NCBI GeneID	57571
NCBI Accession #	NP_065862.1
NCBI Related Accession #	NP_001159694.1
UniProt Primary Accession #	A5YM72
UniProt Secondary Accession #	Q8N467; Q9P2F3; A8K1M3; B4DFC6; E9PK38; F5H427
UniProt Related Accession #	A5YM72
GenBank Nucleotide #	NM_020811.1
NCBI Official Full Name	carnosine synthase 1 isoform 2
NCBI Official Synonym Full Names	carnosine synthase 1
NCBI Official Symbol	CARNS1
NCBI Official Synonym Symbols	ATPGD1
UniProt Protein Name	Carnosine synthase 1
UniProt Synonym Protein Names	ATP-grasp domain-containing protein 1
UniProt Gene Name	CARNS1
UniProt Synonym Gene Names	ATPGD1; KIAA1394
UniProt Entry Name	CRNS1_HUMAN
NCBI Protein Information	carnosine synthase 1
UniProt Comments for ATPGD1	ATPGD1: Catalyzes the synthesis of carnosine and homocarnosine. Carnosine is synthesized more efficiently than homocarnosine. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.11 Chromosomal Location of Human Ortholog: 11q13.2 Molecular Function: carnosine synthase activity; metal ion binding; ATPase activity; ATP binding
Research Articles on ATPGD1	**1.** carnosine synthase is identified as ATP-grasp domain-containing protein 1
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