

**ATPGD1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10580a**

**Specification**

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**ATPGD1 Antibody (N-term) - Product Information**

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| Application       | WB, IHC-P,E                                                  |
| Primary Accession | <a href="#">A5YM72</a>                                       |
| Other Accession   | <a href="#">NP_065862.1</a> , <a href="#">NP_001159694.1</a> |
| Reactivity        | Human, Mouse                                                 |
| Host              | Rabbit                                                       |
| Clonality         | Polyclonal                                                   |
| Isotype           | Rabbit IgG                                                   |
| Calculated MW     | 88484                                                        |
| Antigen Region    | 239-268                                                      |

**ATPGD1 Antibody (N-term) - Additional Information**

**Gene ID** 57571

**Other Names**

Carnosine synthase 1, ATP-grasp domain-containing protein 1, CARNS1, ATPGD1, KIAA1394

**Target/Specificity**

This ATPGD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 239-268 amino acids from the N-terminal region of human ATPGD1.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ATPGD1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ATPGD1 Antibody (N-term) - Protein Information**

**Name** CARNS1 ([HGNC:29268](#))

**Synonyms** ATPGD1, KIAA1394

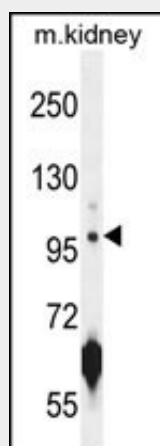
**Function** Catalyzes the synthesis of carnosine and homocarnosine. Carnosine is synthesized more efficiently than homocarnosine.

### ATPGD1 Antibody (N-term) - Protocols

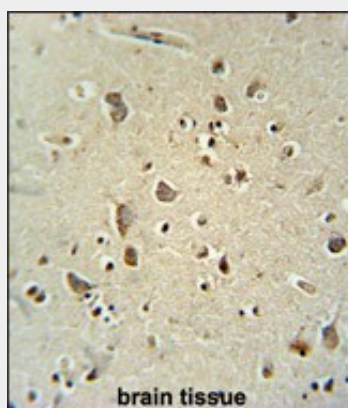
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ATPGD1 Antibody (N-term) - Images



ATPGD1 Antibody (N-term) (Cat. #AP10580a) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the ATPGD1 antibody detected the ATPGD1 protein (arrow).



ATPGD1 antibody (N-term) (Cat. #AP10580a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATPGD1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

### ATPGD1 Antibody (N-term) - Background

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]).

#### **ATPGD1 Antibody (N-term) - References**

Drozak, J., et al. J. Biol. Chem. 285(13):9346-9356(2010)