

ADO Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11081b**Specification**

ADO Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	O96SZ5
Other Accession	NP_116193.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29751
Antigen Region	206-233

ADO Antibody (C-term) - Additional Information**Gene ID** 84890**Other Names**

2-aminoethanethiol dioxygenase, Cysteamine dioxygenase, ADO, C10orf22

Target/Specificity

This ADO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 206-233 amino acids from the C-terminal region of human ADO.

Dilution

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

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

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

ADO Antibody (C-term) - Protein Information**Name** ADO

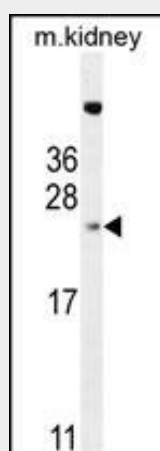
Synonyms C10orf22

Function Plays a vital role in regulating thiol metabolism and preserving oxygen homeostasis by oxidizing the sulfur of cysteamine and N-terminal cysteine-containing proteins to their corresponding sulfinic acids using O₂ as a cosubstrate (PubMed:[17581819](#), PubMed:[29752763](#), PubMed:[31273118](#), PubMed:[32601061](#)). Catalyzes the oxidation of cysteamine (2-aminoethanethiol) to hypotaurine (PubMed:[17581819](#), PubMed:[29752763](#), PubMed:[32601061](#)). Catalyzes the oxidation of regulators of G-protein signaling 4 (RGS4) and 5 (RGS5) and interleukin-32 (IL32) (PubMed:[31273118](#), PubMed:[32601061](#)).

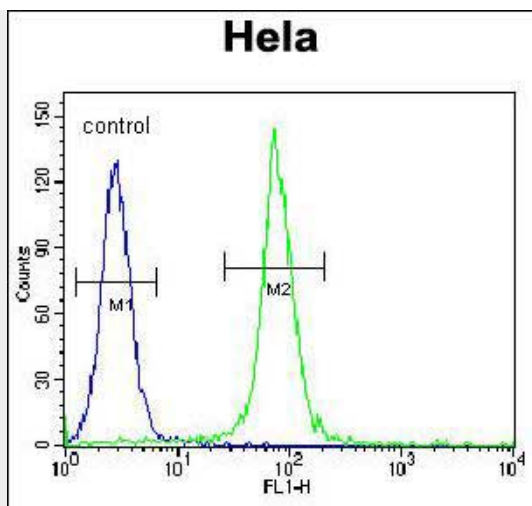
ADO Antibody (C-term) - Protocols

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](#)

ADO Antibody (C-term) - Images

ADO Antibody (C-term) (Cat. #AP11081b) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the ADO antibody detected the ADO protein (arrow).



ADO Antibody (C-term) (Cat. #AP11081b) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADO Antibody (C-term) - Background

Human thiol dioxygenases include cysteine dioxygenase (CDO; MIM 603943) and cysteamine (2-aminoethanethiol) dioxygenase (ADO; EC 1.13.11.19). CDO adds 2 oxygen atoms to free cysteine, whereas ADO adds 2 oxygen atoms to free cysteamine to form hypotaurine (Dominy et al., 2007 [PubMed 17581819]). [supplied by OMIM].

ADO Antibody (C-term) - References

Dominy, J.E. Jr., et al. J. Biol. Chem. 282(35):25189-25198(2007)