

Rabbit ADO Polyclonal Antibody | anti-ADO antibody

Anti-ADO Antibody

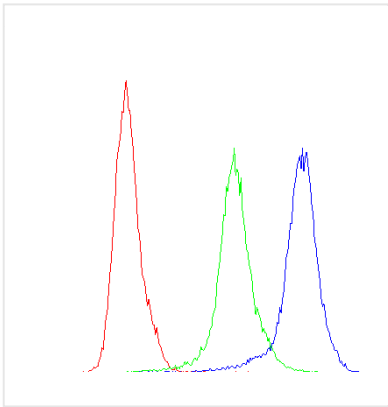
CATALOG # AAA46818	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

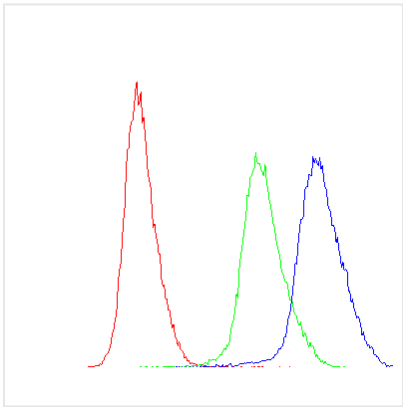
ADO; Polyclonal Antibody; Anti-ADO Antibody; C10orf22; Cysteamine dioxygenase; Q96SZ5; 2-aminoethanethiol dioxygenase; anti-ADO antibody

PRODUCT SPECIFICATIONS

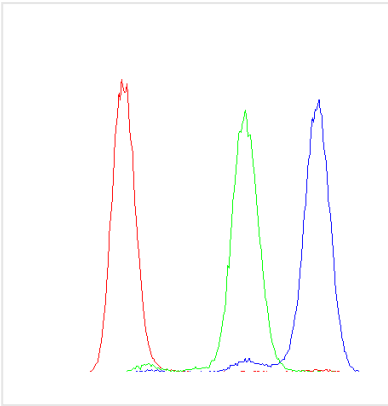
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	270
Applicable Applications for anti-ADO antibody	WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived human ADO recombinant protein (Position: E49-E261). Human ADO shares 90.1% amino acid (aa) sequence identity with mouse ADO.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



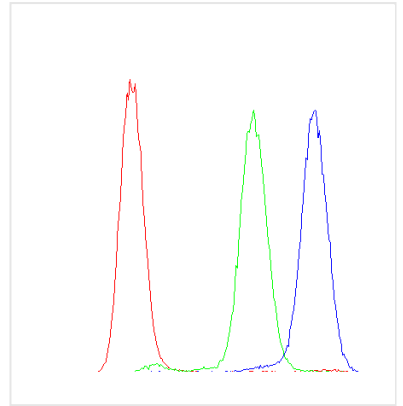
FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of PC-3 cells using anti-ADO antibody (AAA46818).Overlay histogram showing PC-3 cells stained with AAA46818 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ADO Antibody (AAA46818,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



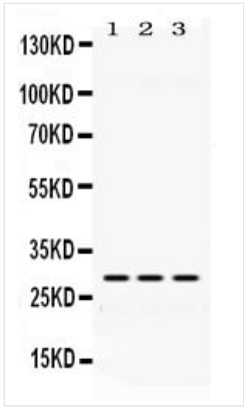
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of Hela cells using anti-ADO antibody (AAA46818).Overlay histogram showing Hela cells stained with AAA46818 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ADO Antibody (AAA46818,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of U251 cells using anti-ADO antibody (AAA46818).Overlay histogram showing U251 cells stained with AAA46818 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ADO Antibody (AAA46818,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of A549 cells using anti-ADO antibody (AAA46818).Overlay histogram showing A549 cells stained with AAA46818 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ADO Antibody (AAA46818,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Western blot analysis of ADO expression in rat testis extract (lane 1), mouse kidney extract (lane 2) and HELA whole cell lysates (lane 3). ADO at 30KD was detected using rabbit anti-ADO Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ADO antibody	Rabbit IgG polyclonal antibody for 2-aminoethanethiol dioxygenase(ADO) detection. Background: Human thiol dioxygenases include cysteine dioxygenase (CDO) and cysteamine (2-aminoethanethiol) dioxygenase (ADO). CDO adds 2 oxygen atoms to free cysteine, whereas ADO adds 2 oxygen atoms to free cysteamine to form hypotaurine. It is demonstrated that mouse Ado has strong and specific dioxygenase activity in vitro towards cysteamine but not cysteine. Recombinant Ado was shown to bind iron. Overexpression of Ado in HepG2/C3A cells increased the production of hypotaurine from cysteamine. Similar results were found with human ADO. When endogenous expression of ADO was reduced by RNA-mediated interference, hypotaurine production decreased. It is also noted that the demonstration of high levels of ADO in brain challenges the previous assumption that most of the taurine in the brain is a consequence of CDO activity.
References	1. Dominy, J. E., Jr., Simmons, C. R., Hirschberger, L. L., Hwang, J., Coloso, R. M., Stipanuk, M. H. Discovery and characterization of a second mammalian thiol dioxygenase, cysteamine dioxygenase.J. Biol. Chem. 282: 25189-25198, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62177110
NCBI GeneID	84890
NCBI Accession #	NP_116193.2
NCBI GenBank Nucleotide #	NM_032804.5
UniProt Accession #	Q96SZ5; B1AL29
Molecular Weight	29,751 Da
NCBI Official Full Name	2-aminoethanethiol dioxygenase
NCBI Official Synonym Full Names	2-aminoethanethiol dioxygenase
NCBI Official Symbol	ADO
NCBI Official Synonym Symbols	C10orf22
NCBI Protein Information	2-aminoethanethiol dioxygenase
UniProt Protein Name	2-aminoethanethiol dioxygenase
UniProt Gene Name	ADO
UniProt Synonym Gene Names	C10orf22

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ado-antibody-western-blot-elisa/46818>