Datasheet for ABIN7354747

anti-ADO antibody (AA 49-261) (DyLight 550)

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Overview

Quantity:	100 µg
Target:	ADO
Binding Specificity:	AA 49-261
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADO antibody is conjugated to DyLight 550
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Human ADO DyLight® 550 conjugated Antibody
Immunogen:	E. coli-derived human ADO recombinant protein (Position: E49-E261). Human ADO shares 90.1% amino acid (aa) sequence identity with mouse ADO.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Human ADO DyLight® 550 conjugated Antibody -Dyl550. Tested in Flow Cytometry applications. This antibody reacts with Human.
Purification:	Immunogen affinity purified.

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Target Details

Target:	ADO
Alternative Name:	ADO (ADO Products)
Background:	Synonyms: 2-aminoethanethiol dioxygenase, Cysteamine dioxygenase, ADO, C10orf22 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.
Molecular Weight:	39 kDa

Application Details

Application Notes:	Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells1. 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.
Comment:	Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na2HPO4, 0.02 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from

light.

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