

Datasheet for ABIN7354745

anti-ADO antibody (AA 49-261) (DyLight 488)



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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 488
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Human ADO DyLight® 488 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® 488 conjugated Antibody -Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Human.

Target Details

Target:	ADO
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Target Details

Alternative Name: ADO ([ADO Products](#))

Background: Synonyms: 2-aminoethanethiol dioxygenase, Cysteamine dioxygenase, ADO, C10orf22
Tissue Specificity: Expressed only in a subset of type 2 skeletal muscle fibers.
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/1x10⁶ 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.

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.