

Anti-ADO antibody

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|-----------------|---|
| Cat. No. | ml260028 |
| Package | 25 µl/100 µl/200 µl |
| Storage | -20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol |

Product overview

| | |
|---------------------|-------------------------------------|
| Description | Anti-ADO rabbit polyclonal antibody |
| Applications | ELISA, WB, IHC |
| Immunogen | Synthetic peptide of human ADO |
| Reactivity | Human, Mouse |
| Content | 0.3 mg/ml |
| Host species | Rabbit |
| Ig class | Immunogen-specific rabbit IgG |
| Purification | Antigen affinity purification |

Target information

| | |
|------------------|---|
| Symbol | ADO |
| Full name | 2-aminoethanethiol (cysteamine) dioxygenase |

Synonyms C10orf22

Swissprot Q96SZ5

Target 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. 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. 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.

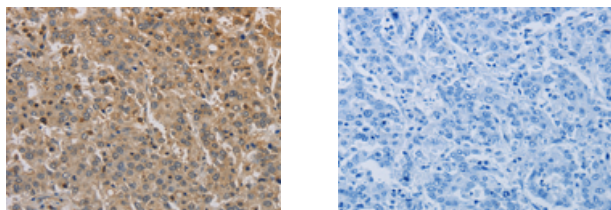
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human liver cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml260028(ADO Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: $\times 200$)

Western blotting

Predicted band size: 30 kDa

Positive control: Mouse testis tissue

Recommended dilution: 1000-5000

Gel: 10%SDS-PAGE

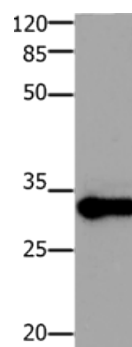
Lysate: 30 μ g

Lane: Mouse testis tissue

Primary antibody: ml260028(ADO Antibody) at dilution 1/1200

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 minutes



ELISA

Recommended dilution: 1000-10000

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