# ADO Polyclonal Antibody

**Catalog Number:E-AB-15460**

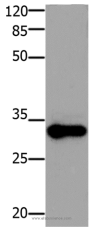
***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

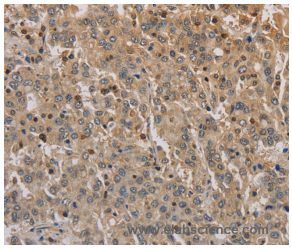
| | |
|---|---|
| **Reactivity** | Human,Mouse |
| **Immunogen** | Synthetic peptide of human ADO |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Purification** | Affinity purification |
| **Conjugation** | Unconjugated |
| **Formulation** | PBS with 0.05% sodium azide and 50% glycerol, PH7.4 |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:1000-1:5000 |
| **IHC** | 1:25-1:100 |

## Data




Western Blot analysis of Mouse testis tissue using ADO Polyclonal Antibody at dilution of 1:1200
**Calculated Mw:30kDa**



Immunohistochemistry of paraffin-embedded Human liver cancer using ADO Polyclonal Antibody at dilution of 1:30

## Preparation & Storage

**Storage** Store at -20℃. Avoid freeze / thaw cycles.

## 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.

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