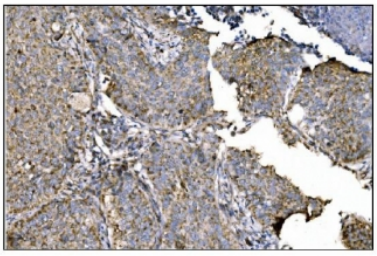
# Ornithine Aminotransferase Antibody / OAT (RQ6502)

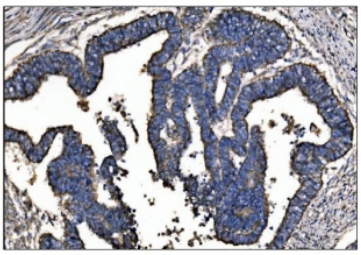
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6502 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

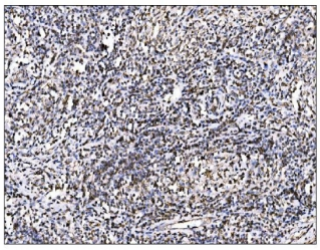
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P04181 |
| **Localization** | Cytoplasmic |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Flow cytometry: 1-3ug/million cells<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This Ornithine Aminotransferase antibody is available for research use only. |



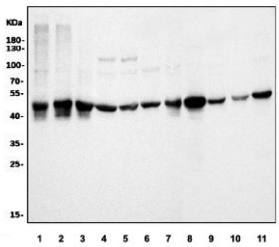
IHC staining of FFPE human lung cancer tissue with Ornithine Aminotransferase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



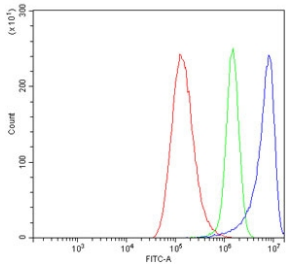
IHC staining of FFPE human rectal cancer tissue with Ornithine Aminotransferase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human testicular cancer tissue with Ornithine Aminotransferase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of human 1) K562, 2) A431, 3) HEK293, 4) Caco-2, 5) U-87 MG, 6) HepG2, 7) U-2 OS, 8) rat kidney, 9) rat testis, 10) mouse brain and 11) mouse kidney lysate with Ornithine Aminotransferase antibody. Predicted molecular weight ~49 kDa.




Flow cytometry testing of human A549 cells with Ornithine Aminotransferase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Ornithine Aminotransferase antibody.

## Description

Ornithine aminotransferase (OAT) is an enzyme which is encoded in human by the OAT gene located on chromosome 10. This gene encodes the mitochondrial enzyme ornithine aminotransferase, which is a key enzyme in the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotransmitters glutamate and GABA. Mutations that result in a deficiency of this enzyme cause the autosomal recessive eye disease Gyrate Atrophy. Alternatively spliced transcript variants encoding different isoforms have been described. Related pseudogenes have been defined on the X chromosome.

## Application Notes

Optimal dilution of the Ornithine Aminotransferase antibody should be determined by the researcher.

## Immunogen

An E. coli-derived human protein (amino acids A214-F439) was used as the immunogen for the Ornithine Aminotransferase antibody.

## Storage

After reconstitution, the Ornithine Aminotransferase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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