


Anti-ornithine aminotransferase antibody ab137679

★★★★★ [1 Abreviews](#) [8 References](#) [4 Images](#)

Overview

Product name	Anti-ornithine aminotransferase antibody
Description	Rabbit polyclonal to ornithine aminotransferase
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Chicken, Cow 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 30-395 of Human ornithine aminotransferase (Uniprot ID: P04181).
Positive control	293T, A431, HepG2, MOLT4, Raji, Mouse brain whole cell lysates; Human gastric carcinoma tissue; A431 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137679 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 49 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. or Tris-EDTA buffer (pH8.0)
ICC/IF		1/100 - 1/1000.

Target

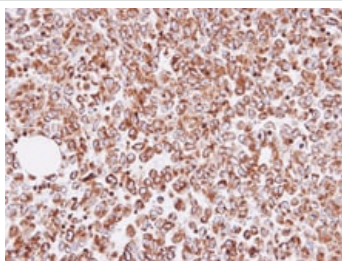
Relevance

Ornithine aminotransferase (OAT) is a key mitochondrial 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. OAT has also been linked with prostate cancer and alternatively activated macrophages

Cellular localization

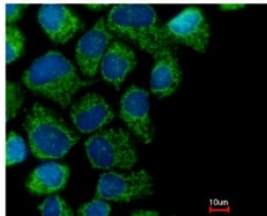
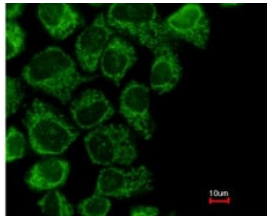
Mitochondrion matrix.

Images



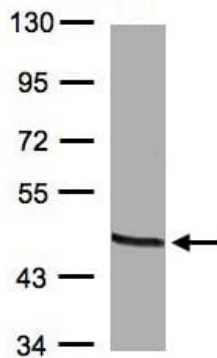
Immunohistochemical analysis of paraffin-embedded Human gastric carcinoma tissue, labelling ornithine aminotransferase with ab137679 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ornithine aminotransferase antibody (ab137679)



Immunofluorescence analysis of methanol-fixed A431 cells labelling ornithine aminotransferase with ab137679 at 1/200 dilution. Lower image shows cells co-stained with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-ornithine aminotransferase antibody (ab137679)

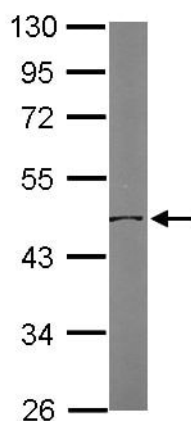


Anti-ornithine aminotransferase antibody (ab137679) at 1/1000 dilution + 293T whole cell lysate at 30 µg

Predicted band size: 49 kDa

7.5% SDS PAGE

Western blot - Anti-ornithine aminotransferase antibody (ab137679)



Western blot - Anti-ornithine aminotransferase antibody (ab137679)

Anti-ornithine aminotransferase antibody (ab137679) at 1/1000 dilution + Mouse brain whole cell lysate at 50 µg

Predicted band size: 49 kDa

10% SDS PAGE

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