Datasheet for ABIN7600649

anti-OAT antibody (AA 214-439)

Go to Product page

Overview

Quantity:	100 µg
Target:	OAT
Binding Specificity:	AA 214-439
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OAT antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ornithine aminotransferase/OAT Antibody Picoband®
Immunogen:	E.coli-derived human OAT recombinant protein (Position: A214-F439).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ornithine aminotransferase/OAT Antibody Picoband® (ABIN7600649). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	OAT
Alternative Name:	OAT (OAT Products)
Background:	Synonyms: Podoplanin, Aggrus, Glycoprotein 36, Gp36, PA2.26 antigen, T1-alpha, T1A, 29 kDa cytosolic podoplanin intracellular domain, PICD, PDPN, GP36, PSEC0003, PSEC0025 Tissue Specificity: Highly expressed in placenta, lung, skeletal muscle and brain. Weakly expressed in brain, kidney and liver. In placenta, expressed on the apical plasma membrane of endothelium. In lung, expressed in alveolar epithelium. Up-regulated in colorectal tumors and expressed in 25 % of early oral squamous cell carcinomas. Background: 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.
Molecular Weight:	49 kDa
Gene ID:	4942
UniProt:	P04181

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, -

1. Akaki, Y., Hotta, Y., Mashima, Y., Murakami, A., Kennaway, N. G., Weleber, R. G., Inana, G. A deletion in the ornithine aminotransferase gene in gyrate atrophy. J. Biol. Chem. 267: 12950-12954, 1992. 2. Barrett, D. J., Bateman, J. B., Sparkes, R. S., Mohandas, T., Klisak, I., Inana, G. Chromosomal localization of human ornithine aminotransferase gene sequences to 10q26 and Xp11.2. Invest. Ophthal. Vis. Sci. 28: 1037-1042, 1987. 3. Bisaillon, J. J., Radden, L. A., II, Szabo, E. T., Hughes, S. R., Feliciano, A. M., Nesta, A. V., Petrovic, B., Palanza, K. M., Lancinskas, D., Szmurlo, T. A., Artus, D. C., Kapper, M. A., Mulrooney, J. P., King, T. R. The retarded hair growth (rhg) mutation in mice is an allele of ornithine aminotransferase (Oat). Molec. Genet. Metab. Rep. 1: 378-390, 2014.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.