

Immunotag™ OAT Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT3219
Product Description	Immunotag™ OAT Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	OAT
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from OAT, at AA range: 100-180
Specificity	OAT Polyclonal Antibody detects endogenous levels of OAT protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	OAT
Accession No.	P04181 P29758 P04182
Alternate Names	OAT; Ornithine aminotransferase; mitochondrial; Ornithine delta-aminotransferase; Ornithine--oxo-acid aminotransferase

Antibody Specification

Description	ornithine aminotransferase(OAT) Homo sapiens 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. [provided by RefSeq, Jan 2010],
Cell Pathway/ Category	Arginine and proline metabolism,
Protein Expression	Alzheimer cortex,Brain,Cerebral cortex,Kidney,Liver,Placenta,Subthalamic nucleus,Ut
Subcellular Localization	mitochondrion,mitochondrial matrix,
Protein Function	catalytic activity:L-ornithine + a 2-oxo acid = L-glutamate 5-semialdehyde + an L-amino acid.,cofactor:Pyridoxal phosphate.,disease:Defects in OAT are the cause of hyperornithinemia with gyrate atrophy of choroid and retina (HOGA) [MIM:258870]. HOGA is a slowly progressive blinding autosomal recessive disorder.,pathway:Amino-acid biosynthesis; L-proline biosynthesis; L-glutamate 5-semialdehyde from L-ornithine: step 1/1.,similarity:Belongs to the class-III pyridoxal-phosphate-dependent aminotransferase family.,subunit:Homotetramer.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.