Best Tools for immunology Research

OAT Polyclonal Antibody

Catalog No :	YT3219
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	OAT
Fields :	>>Arginine and proline metabolism;>>Metabolic pathways
Gene Name :	OAT
Protein Name :	Ornithine aminotransferase mitochondrial
Human Gene Id :	4942
Human Swiss Prot No :	P04181
Mouse Gene Id :	18242
Mouse Swiss Prot No :	P29758
Rat Gene Id :	64313
Rat Swiss Prot No :	P04182
Immunogen :	Synthesized peptide derived from OAT . at AA range: 100-180
Specificity :	OAT Polyclonal Antibody detects endogenous levels of OAT protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 48kD

Cell Pathway : Arginine and proline metabolism;

Background : 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],

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.,

Subcellular Location : Mitochondrion matrix .

Expression : Alzheimer cortex,Brain,Cerebral cortex,Kidney,Liver,Placenta,Subthalamic nucleus,Ut

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