OAT Polyclonal Antibody

Catalog No	YP-Ab-00711
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	OAT
Protein Name	Ornithine aminotransferase mitochondrial
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	OAT; Ornithine aminotransferase; mitochondrial; Ornithine delta-aminotransferase; Ornithine--oxo-acid aminotransferase
Observed Band	48kD
Cell Pathway	Mitochondrion matrix .
Tissue Specificity	Alzheimer cortex,Brain,Cerebral cortex,Kidney,Liver,Placenta,Subthalamic nucleus,Ut
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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images