

## OAT Polyclonal Antibody

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

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Observed Band :** 48kD

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**Cell Pathway :** Arginine and proline metabolism;

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**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],

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**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.,

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**Subcellular Location :** Mitochondrion matrix .

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

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**Sort :** 11027

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**No4 :** 1

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**Host :** Rabbit

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**Modifications :** Unmodified

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**Products Images**