

Anti-GOT1L1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Pig,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 47 kDa. Actual: 47 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Kidney (Mouse) Lysate at 40 µg Primary: Anti-GOT1L1 (TMAB-06643) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD
	2. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GOT1L1) Polyclonal Antibody, Unconjugated (TMAB-06643) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
	3. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GOT1L1) Polyclonal Antibody, Unconjugated (TMAB-06643) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
	4. Sample: Liver (Mouse) Lysate at 40 µg Primary: Anti-GOT1L1 (TMAB-06643) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human GOT1L1
Antigen Species: Human
Gene ID: 137362
Uniprot ID: Q8NHS2

Research Background

GOT1L1, Glutamate oxaloacetate transaminase 1-like protein 1, is a 421 amino acid member of the class-I pyridoxal-phosphate-dependent aminotransferase family. Similar to glutamate-oxaloacetate transaminase (GOT1), GOT1L1 is found primarily as a homodimer in the cytoplasmic space but also has mitochondrial and chloroplastic isozymes. GOT1L1 transaminates 2-oxoglutarate with L-aspartate to yield oxaloacetate and L-glutamate. This reaction requires a pyridoxal phosphate cofactor to occur. The GOT1L1 peptidase is predominately expressed in the liver and serum levels of this protein can be used as an indicator of liver disease. Also, elevated glutamate concentrations in the brain interstitial fluids can lead to pathological brain conditions. The glutamate-scavenging properties of these aminotranferase type enzymes likely prevent glutamate excitotoxicity and the long-lasting neurological deficits seen after stroke.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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