10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GOT1L1 Rabbit pAb

Catalog # AP96573

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8NHS2
Other Accession	Q8NHS2
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47305
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GOT1L1
Epitope Specificity	201-300/421
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family.
SUBUNIT	Homodimer (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	137362
Other Names	1700083M11Rik; AATC2_HUMAN; GOT1L1; Glutamate oxaloacetate transaminase 1-like protein 1; Transaminase A-like protein 1; 2.6.1.1; AATC2_MOUSE; glutamic-oxaloacetic transaminase 1 like 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GOT1L1 (HGNC:28487)
Function	Catalyzes the conversion of L-aspartate and 2-oxoglutarate to L-glutamate and oxaloacetate (PubMed:25287256). It has been proposed to exhibit aspartate racemase activity, but this function remains debated and lacks strong experimental support (PubMed:25287256).
Cellular Location	Cytoplasm.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.