

Product datasheet for **TA384313S**

Aspartate Aminotransferase (GOT1) Rabbit Monoclonal Antibody [Clone ID: R05-6C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R05-6C1
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1/1000 IHC: 1/20-1/100 ICC/IF: 1/100-1/100
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Aspartate Aminotransferase
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 46 kDa; Observed MW: 46 kDa
Gene Name:	glutamic-oxaloacetic transaminase 1
Database Link:	Entrez Gene 2805 Human P17174



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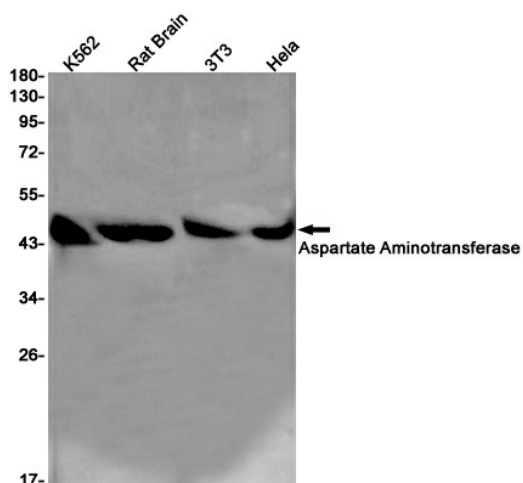
Background:

Swiss-Prot Acc.P17174. Biosynthesis of L-glutamate from L-aspartate or L-cysteine. Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as a scavenger of glutamate in brain neuroprotection. The aspartate aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H₂S via the action of 3-mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain.

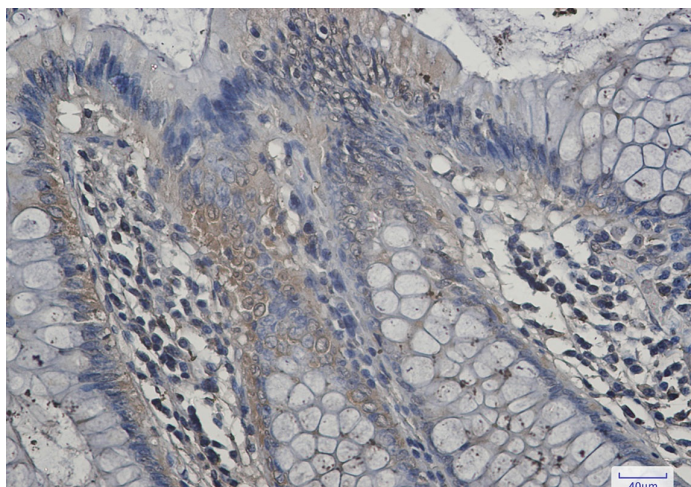
Synonyms:

GIG18

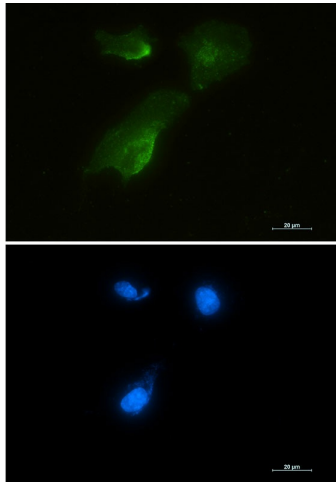
Product images:



Western blot analysis of Aspartate Aminotransferase in K562, rat Brain, 3T3, HeLa lysates using Aspartate Aminotransferase antibody.



Immunohistochemistry analysis of paraffin-embedded Human colon cancer tissue using Aspartate Aminotransferase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of Aspartate Aminotransferase (green) in U87-MG using Aspartate Aminotransferase antibody, and DAPI (blue).