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GALT Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant GALT.
Catalog # AT2149a

Product Information

Application	WB, IHC, E
Primary Accession	P07902
Other Accession	BC015045
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	4C11
Calculated MW	43363

Additional Information

Gene ID	2592
Other Names	Galactose-1-phosphate uridylyltransferase, Gal-1-P uridylyltransferase, UDP-glucose--hexose-1-phosphate uridylyltransferase, GALT
Target/Specificity	GALT (AAH15045, 1 a.a. ~ 379 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GALT Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

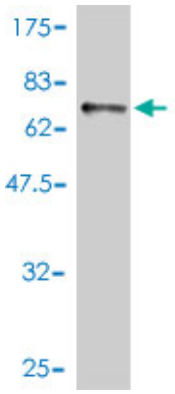
Galactose-1-phosphate uridyl transferase (GALT) catalyzes the second step of the Leloir pathway of galactose metabolism, namely the conversion of UDP-glucose + galactose-1-phosphate to glucose-1-phosphate + UDP-galactose. The absence of this enzyme results in classic galactosemia in humans and can be fatal in the newborn period if lactose is not removed from the diet. The pathophysiology of galactosemia has not been clearly defined.

References

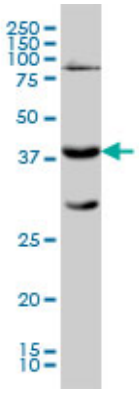
Molecular and biochemical characterization of the GALT gene in Korean patients with galactose-1-phosphate

uridyltransferase deficiency. Ko DH, et al. Clin Chim Acta, 2010 Oct 9. PMID 20547145.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.Classical galactosemia in Estonia: selective neonatal screening, incidence, and genotype/phenotype data of diagnosed patients. Ounap K, et al. J Inherit Metab Dis, 2010 Apr. PMID 20151200.Analysis of galactosemia-linked mutations of GALT enzyme using a computational biology approach. Facchiano A, et al. Protein Eng Des Sel, 2010 Feb. PMID 20008339.Galactose-1-phosphate uridyl transferase deficiency is not associated with M?llerian aplasia in Dutch patients. Nijland R, et al. J Pediatr Adolesc Gynecol, 2009 Aug. PMID 19646668.

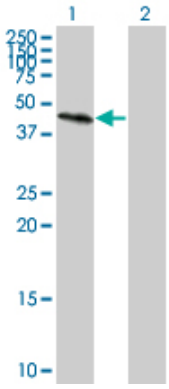
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (67.43 KDa) .

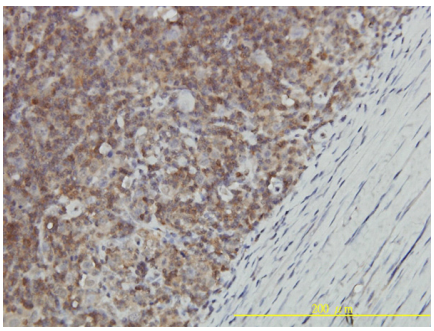


GALT monoclonal antibody (M01), clone 4C11 Western Blot analysis of GALT expression in K-562 ((Cat # AT2149a)

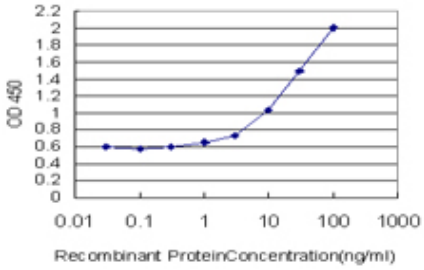


Western Blot analysis of GALT expression in transfected 293T cell line by GALT monoclonal antibody (M01), clone 4C11.

Lane 1: GALT transfected lysate(43 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to GALT on formalin-fixed paraffin-embedded human lymphoma tissue. [antibody concentration 1 ug/ml]



Detection limit for recombinant GST tagged GALT is approximately 0.3ng/ml as a capture antibody.