

Product Name: KD-Validated GALT Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01589**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 43.4kDa

Antigen Information

Gene Name	GALT GALT; Galactose-1-Phosphate Uridyltransferase; UDP-Glucose--Hexose-1-Phosphate
Alternative Names	Uridyltransferase; Gal-1-P Uridyltransferase; Galactose-1-Phosphate Uridyl Transferase; EC 2.7.7.12
Gene ID	2592.0
SwissProt ID	P07902
Immunogen	A synthesized peptide derived from human GALT

Background

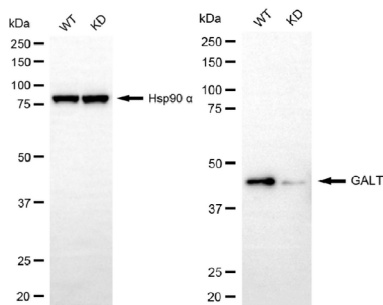
Galactose-1-phosphate uridyl transferase (GALT) catalyzes the second step of the Leloir pathway of galactose metabolism, namely the conversion of UDP-glucose + galactose-1-phosphate to glucose-1-phosphate + UDP-galactose. The absence of

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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

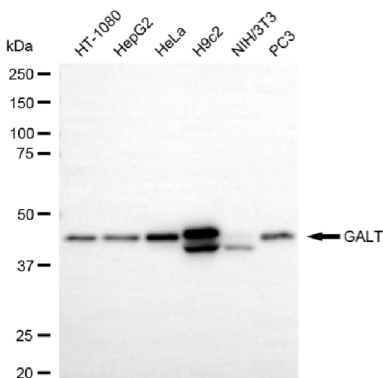
Research Area

Signal Transduction,Cancer,Metabolism

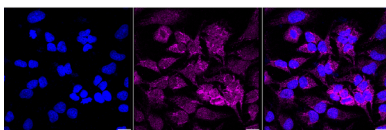
Image Data



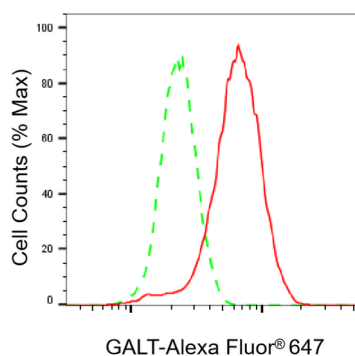
Western blotting analysis using GALT antibody (KVA01589). GALT expression in wild-type (WT) and GALT knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with GALT antibody (KVA01589, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using GALT antibody (KVA01589). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GALT antibody (KVA01589, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with GALT antibody (KVA01589, 1:1,000). Nuclei were stained blue with DAPI; GALT was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of GALT expression in HeLa cells using GALT antibody (KVA01589, 1:2,000). Green, isotype control; red, GALT.