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Anti-GALM Antibody

Catalog # AP54119

Product Information

Application	WB, IF/IC
Primary Accession	Q96C23
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37766

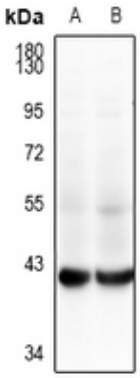
Additional Information

Gene ID	130589
Other Names	Aldose 1-epimerase; Galactose mutarotase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GALM. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

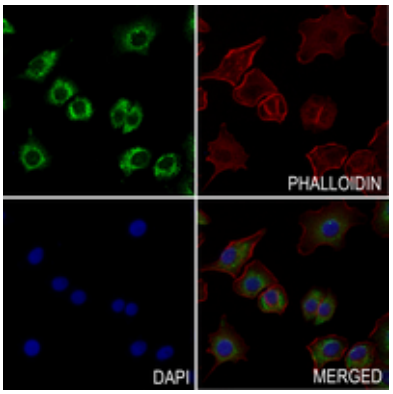
Protein Information

Name	GALM (HGNC:24063)
Function	Mutarotase that catalyzes the interconversion of beta-D- galactose and alpha-D-galactose during galactose metabolism (PubMed:12753898). Beta-D-galactose is metabolized in the liver into glucose 1-phosphate, the primary metabolic fuel, by the action of four enzymes that constitute the Leloir pathway: GALM, GALK1 (galactokinase), GALT (galactose-1-phosphate uridylyltransferase) and GALE (UDP-galactose-4'-epimerase) (PubMed:30451973). Involved in the maintenance of the equilibrium between the beta- and alpha-anomers of galactose, therefore ensuring a sufficient supply of the alpha-anomer for GALK1 (PubMed:12753898). Also active on D-glucose although shows a preference for galactose over glucose (PubMed:12753898).
Cellular Location	Cytoplasm.

Images



Western blot analysis of GALM expression in mouse kidney (A), rat kidney (B) whole cell lysates. (Predicted band size: 37 kD; Observed band size: 40 kD)



Immunofluorescent analysis of GALM staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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