

KD-Validated Anti-Galactose Mutarotase Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2072

Product Information

Application	WB
Primary Accession	Q96C23
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB13160
Calculated MW	37766
Gene Name	GALM
Aliases	GALM; Galactose Mutarotase; Aldose 1-Epimerase; Aldose Mutarotase; Galactomutarotase; EC 5.1.3.3; Epididymis Secretory Sperm Binding Protein Li 63p; Galactose Enzyme Activator; HEL-S-63p; BLOCK25; GALAC4; GLAT; IBD1
Immunogen	Recombinant protein of human GALM

Additional Information

Gene ID	130589
Other Names	Galactose mutarotase, 5.1.3.3, Aldose 1-epimerase, GALM (HGNC:24063)

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.