

KD-Validated Anti-Galactose Mutarotase Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI2072**Specification****KD-Validated Anti-Galactose Mutarotase Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	Q96C23
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 38 kDa, observed, 36 kDa kDa
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

KD-Validated Anti-Galactose Mutarotase Mouse Monoclonal Antibody - Additional Information

Gene ID	130589
Other Names	
Galactose mutarotase, 5.1.3.3, Aldose 1-epimerase, GALM (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=24063)	
target="_blank">HGNC:24063)	

KD-Validated Anti-Galactose Mutarotase Mouse Monoclonal Antibody - Protein Information**Name** GALM ([HGNC:24063](#))**Function**

Mutarotase that catalyzes the interconversion of beta-D- galactose and alpha-D-galactose during galactose metabolism (PubMed:<http://www.uniprot.org/citations/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:<http://www.uniprot.org/citations/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:<http://www.uniprot.org/citations/12753898>). Also active on D-glucose although shows a preference for galactose over glucose (PubMed:[http://www.uniprot.org/citations/12753898](#)).

href="http://www.uniprot.org/citations/12753898" target="_blank">12753898).

Cellular Location

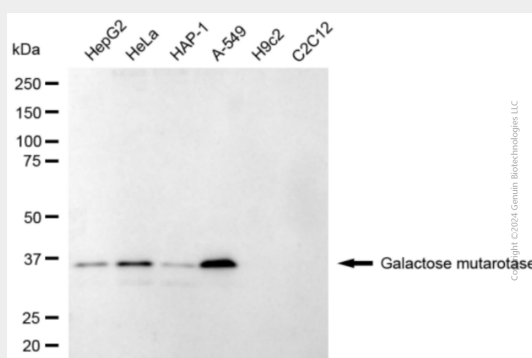
Cytoplasm.

KD-Validated Anti-Galactose Mutarotase Mouse Monoclonal Antibody - Protocols

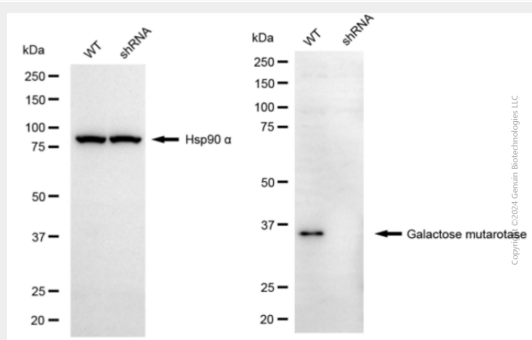
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Galactose Mutarotase Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-galactose mutarotase antibody (Cat#AGI2072). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-galactose mutarotase antibody (Cat#AGI2072, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-galactose mutarotase antibody (Cat#AGI2072). Galactose mutarotase expression in wild-type (WT) and galactose mutarotase (GALM) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-galactose mutarotase antibody (Cat#AGI2072, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.