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KD-Validated Anti-GALE Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2059

Specification

KD-Validated Anti-GALE Mouse Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q14376
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 38 kDa, observed, 34 kDa KDa**
Gene Name	**GALE**
Aliases	**GALE; UDP-Galactose-4-Epimerase; UDP-Glucose 4-Epimerase; SDR1E1; Short Chain Dehydrogenase/Reductase Family 1E, Member 1; UDP-N-Acetylgalactosamine 4-Epimerase; UDP-N-Acetylglucosamine 4-Epimerase; Galactose-4-Epimerase, UDP-; UDP-GalNAc 4-Epimerase; UDP-GlcNAc 4-Epimerase; Galactowaldenase; EC 5.1.3.2; Epididymis Secretory Sperm Binding Protein; UDP Galactose-4'-Epimerase; UDP-Galactose 4-Epimerase; EC 5.1.3.7; EC 5.1.3 47; THC13**
Immunogen	**Recombinant protein of human GALE**

KD-Validated Anti-GALE Mouse Monoclonal Antibody - Additional Information

Gene ID **2582**

Other Names
UDP-glucose 4-epimerase, 5.1.3.2, Galactowaldenase, UDP-N-acetylgalactosamine 4-epimerase, UDP-GalNAc 4-epimerase, UDP-N-acetylglucosamine 4-epimerase, UDP-GlcNAc 4-epimerase, 5.1.3.7, UDP-galactose 4-epimerase, GALE (HGNC:4116)

KD-Validated Anti-GALE Mouse Monoclonal Antibody - Protein Information

Name GALE (HGNC:4116)

Function
Catalyzes two distinct but analogous reactions: the reversible epimerization of UDP-glucose to UDP-galactose and the reversible epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine. The reaction with UDP-Gal plays a critical role in the Leloir pathway of galactose catabolism in which galactose is converted to the glycolytic intermediate glucose 6-phosphate. It contributes to the catabolism of dietary galactose and enables the endogenous

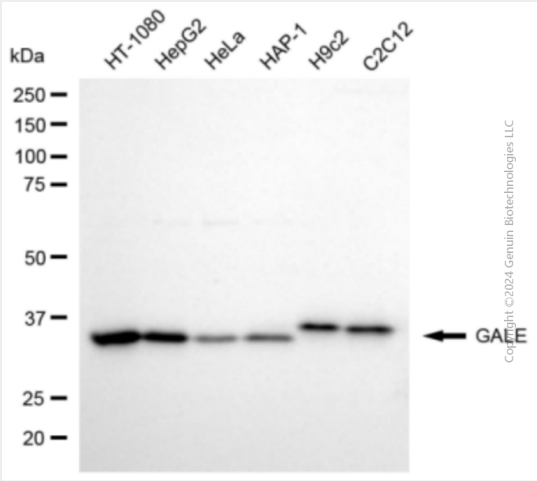
biosynthesis of both UDP-Gal and UDP-GalNAc when exogenous sources are limited. Both UDP-sugar interconversions are important in the synthesis of glycoproteins and glycolipids.

KD-Validated Anti-GALE Mouse Monoclonal Antibody - Protocols

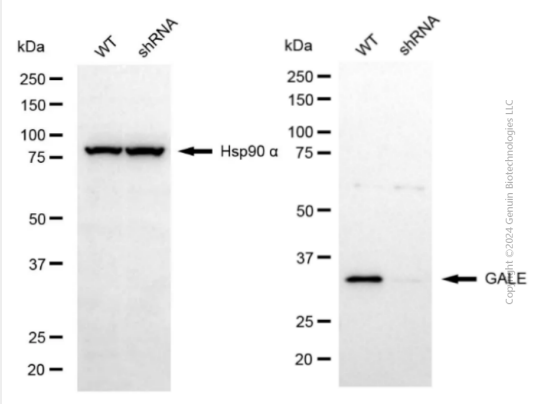
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-GALE Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-GALE antibody (Cat#AGI2059). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-GALE antibody (Cat#AGI2059, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-GALE antibody (Cat#AGI2059). GALE expression in wild-type (WT) and GALE shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves

as a loading control. The blot was incubated with anti-GALE antibody (Cat#AGI2059, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.