

KD-Validated Anti-GALE Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2059

Product Information

Application	WB
Primary Accession	Q14376
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB13050
Calculated MW	38282
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

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)

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.