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GALE Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8508b

Specification

GALE Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q14376

GALE Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 2582

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8508b was selected from the C-term region of human GALE. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GALE Antibody (C-term) Blocking Peptide - 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.

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GALE Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

GALE Antibody (C-term) Blocking Peptide - Images

GALE Antibody (C-term) Blocking Peptide - Background

UDP-galactose-4-epimerase catalyzes two distinct but analogous reactions: the epimerization of UDP-glucose to UDP-galactose, and the epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine. The bifunctional nature of the enzyme has the important metabolic consequence that mutant cells (or individuals) are dependent not only on exogenous galactose, but also on exogenous N-acetylgalactosamine as a necessary precursor for the synthesis of glycoproteins and glycolipids.

GALE Antibody (C-term) Blocking Peptide - References

Timson,D.J. et.al., IUBMB Life 58 (2), 83-89 (2006)