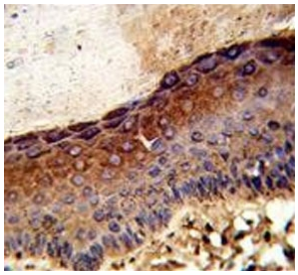
UDP-glucose 4-epimerase Antibody / GALE (F54898)

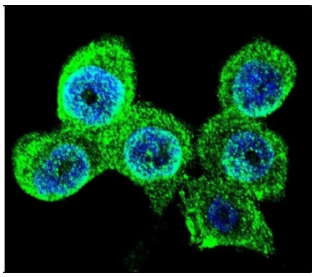
Catalog No.	Formulation	Size
F54898-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54898-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

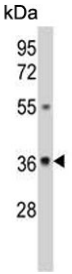
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q14376
Localization	Cytoplasmic
Applications	Immunofluorescence : 1:10-1:50 Flow Cytometry : 1:10-1:50 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:50-1:100 Western Blot : 1:500-1:1000
Limitations	This UDP-glucose 4-epimerase antibody is available for research use only.



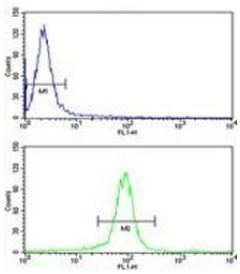
IHC testing of FFPE human skin tissue with UDP-glucose 4-epimerase antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human WiDr cells with UDP-glucose 4-epimerase antibody (green) and DAPI nuclear stain (blue).



Western blot testing of human A375 cell lysate with UDP-glucose 4-epimerase antibody. Predicted molecular weight ~38 kDa.



Flow cytometry testing of human HeLa cells with UDP-glucose 4-epimerase antibody; Blue=isotype control, Green= UDP-glucose 4-epimerase antibody.

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the UDP-glucose 4-epimerase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 142-171 from the human protein was used as the immunogen for the UDP-glucose 4-epimerase antibody.

Storage

Aliquot the UDP-glucose 4-epimerase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.