GALE antibody

Catalog No: #39031

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

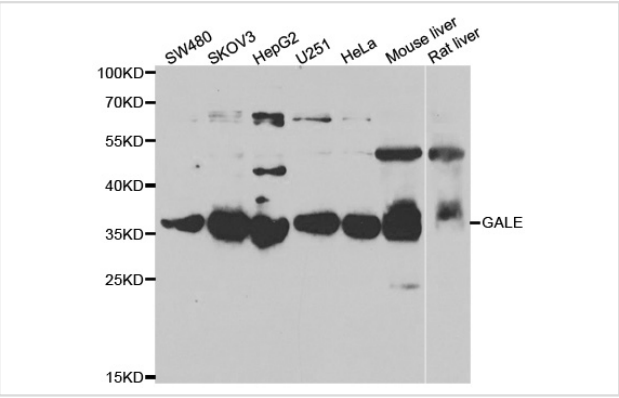
Product Name	GALE antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total GALE antibody.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human GALE.
Target Name	GALE
Other Names	SDR1E1;
Accession No.	Swiss-Prot#: Q14376NCBI Gene ID: 2582
SDS-PAGE MW	38kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

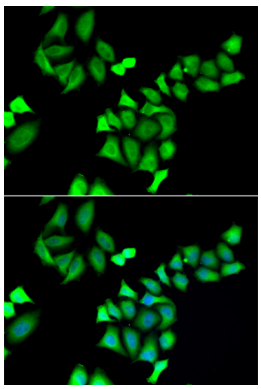
Western blotting: 1:500 - 1:2000

Immunofluorescence: 1:50 - 1:200

Images



Western blot analysis of extracts of various cell lines, using GALE antibody.



Immunofluorescence analysis of A549 cell using GALE antibody. Blue: DAPI for nuclear staining.

Background

This gene encodes UDP-galactose-4-epimerase which 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. Mutations in this gene result in epimerase-deficiency galactosemia, also referred to as galactosemia type 3, a disease characterized by liver damage, early-onset cataracts, deafness and mental retardation, with symptoms ranging from mild ('peripheral' form) to severe ('generalized' form). Multiple alternatively spliced transcripts encoding the same protein have been identified.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.