abcam

Product datasheet

Anti-GALE antibody ab81541

1 Image

Overview

Product name	Anti-GALE antibody
Description	Rabbit polyclonal to GALE
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Guinea pig, Cow, Cat, Dog, Pig
Immunogen	Synthetic peptide corresponding to a region within N terminal amino acids 1-50 (MAEKVLVTGG AGYIGSHTVL ELLEAGYLPV VIDNFHNAFR GGGSLPESLR) of Human GALE (NP_001008217). Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Human fetal liver lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab81541** in the following tested applications.

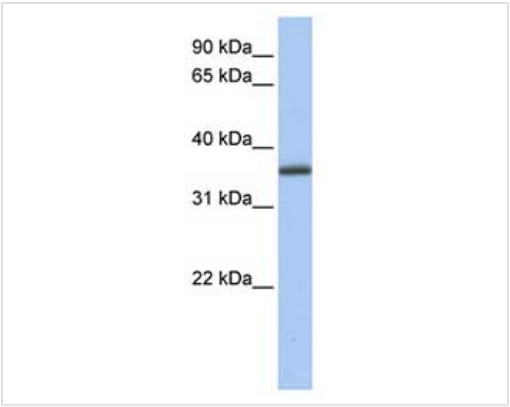
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 38 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

Function	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.
Pathway	Carbohydrate metabolism; galactose metabolism.
Involvement in disease	Defects in GALE are the cause of epimerase-deficiency galactosemia (EDG) [MIM:230350]; also known as galactosemia type 3. Clinical features include early-onset cataracts, liver damage, deafness and mental retardation. There are two clinically distinct forms of EDG. (1) A benign, or 'peripheral' form with no detectable GALE activity in red blood cells and characterized by mild symptoms. Some patients may suffer no symptoms beyond raised levels of galactose-1-phosphate in the blood. (2) A much rarer 'generalized' form with undetectable levels of GALE activity in all tissues and resulting in severe features such as restricted growth and mental development.
Sequence similarities	Belongs to the sugar epimerase family.

Images



Western blot - Anti-GALE antibody (ab81541)

Anti-GALE antibody (ab81541) at 1 µg/ml (in 5% skim milk / PBS buffer) + Human fetal liver lysate at 10 µg

Secondary
HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 38 kDa
Observed band size: 36 kDa

Gel concentration: 12%

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