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Datasheet for ABIN5003129

anti-GALE antibody (AA 21-120) (Alexa Fluor 680)

Overview

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|----------------------|--|
| Quantity: | 100 µL |
| Target: | GALE |
| Binding Specificity: | AA 21-120 |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This GALE antibody is conjugated to Alexa Fluor 680 |
| Application: | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

Product Details

| | |
|-----------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human GALE/Galactowaldenase |
| Isotype: | IgG |
| Cross-Reactivity: | Mouse |
| Predicted Reactivity: | Human,Rat,Pig,Horse |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|---|
| Target: | GALE |
| Alternative Name: | GALE/Galactowaldenase (GALE Products) |

Target Details

Background: Synonyms: FLJ95174, FLJ97302, Galactose 4 epimerase UDP, Galactowaldenase, galE, GALE_HUMAN, OTTHUMP00000002991, OTTHUMP00000002994, OTTHUMP000000037931, OTTHUMP000000044857, SDR1E1, short chain dehydrogenase/reductase family 1E member 1, UDP galactose 4 epimerase, UDP glucose 4 epimerase, UDP-galactose 4-epimerase, UDP-glucose 4-epimerase.

Background: GALE is a 348 amino acid protein that functions as the third enzyme in the Leloir pathway of galactose metabolism. A member of the sugar epimerase family, GALE exists as a homodimer, binds FAD as a cofactor and catalyzes the epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine and UDP-glucose to UDP-galactose. The gene encoding GALE maps to human chromosome 1p36.11 and mutations in this gene lead to the development of complex disorder known as epimerase-deficiency galactosemia (EDG) or galactosemia type 3, which is characterized by mental retardation, liver damage, cataracts and deafness.

Gene ID: 2582

Pathways: [Response to Water Deprivation](#), [Cellular Glucan Metabolic Process](#)

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Handling

Expiry Date: 12 months