# GALK1 (m): 293T Lysate: sc-125370



The Power to Question

#### **BACKGROUND**

Galactose kinase (GALK1), also often designated galactokinase, is important in the first step of the galactose metabolism pathway. GALK1, which belongs to the GHMP kinase family of proteins, is a crucial enzyme for galactose metabolism. Defects in the gene encoding for galactose kinase, GALK1, can cause galactosemia II, an autosomal recessive disorder characterized by congenital cataracts during infancy, often within the first two weeks of life. In the adult population it can cause presenile cataracts that are secondary to accumulation of galactitol in the lens of the eye.

# REFERENCES

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#### **CHROMOSOMAL LOCATION**

Genetic locus: Galk1 (mouse) mapping to 11 E2.

# **PRODUCT**

GALK1 (m): 293T Lysate represents a lysate of mouse GALK1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

## **APPLICATIONS**

GALK1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GALK1 antibodies. Recommended use: 10-20 µl per lane.

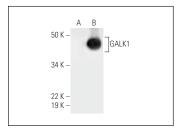
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

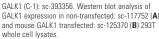
GALK1 (C-1): sc-393356 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse GALK1 expression in GALK1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

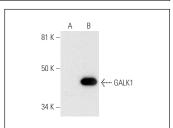
#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### DATA







GALK1 (A-2): sc-393404. Western blot analysis of GALK1 expression in non-transfected: sc-117752 (A) and mouse GALK1 transfected: sc-125370 (B) 293T whole cell Ivsates.

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.