Insig1 (Insulin-induced Gene 1 Protein, INSIG-1)

Catalog number

I7655-85

Supplier

United States Biological

Oxysterols regulate cholesterol homeostasis through liver X receptor (LXR) and sterol regulatory element-binding protein (SREBP) mediated signaling pathway. This gene is an insulin-induced gene. It encodes an endoplasmic reticulum (ER) membrane protein that plays a critical role in regulating cholesterol concentrations in cells. This protein binds to the sterol-sensing domains of SREBP cleavage-activating protein (SCAP) and HMG CoA reductase, and is essential for the sterol-mediated trafficking of the two proteins. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Cellular Localization

Membrane

Positive Control

HepG2 lysate

Applications

Suitable for use in Western Blot, Immunocytochemistry and Immunofluorescence. Other applications not tested.

Recommended Dilution

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

Synthetic peptide corresponding to the internal region of human INSIG-1 (between residues 1-100).

Formulation

Supplied as a liquid in PBS, 0.09% sodium azide, 30% glycerol.

Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes human INSIG-1. Specific for Insig1 but not Insig2.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

IC IF WB

Crossreactivity

Hu

Storage

-20°C

Reference

1. Engelking, LJ, et al. J. Clin. Invest. 115(9): 2489-2498 (2005)
2. Gong, Y., Cell Metabolism. 3: 15-24 (2006)