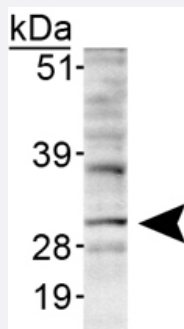


INSIG1 polyclonal antibody

Catalog # PAB12411 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of INSIG1 in HepG2 lysate using INSIG1 polyclonal antibody (Cat # PAB12411).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of INSIG1.
Immunogen	A synthetic peptide corresponding to amino acids 1-100 of human INSIG1.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to Insig1 but not Insig2.
Form	Liquid
Recommend Usage	Western Blot (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (30% glycerol, 0.09% sodium azide)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of INSIG1 in HepG2 lyaste using INSIG1 polyclonal antibody (Cat # PAB12411).

Gene Info — INSIG1

Entrez GeneID [3638](#)

Protein Accession# [O15503](#)

Gene Name INSIG1

Gene Alias CL-6, MGC1405

Gene Description insulin induced gene 1

Omim ID [602055](#)

Gene Ontology [Hyperlink](#)

Gene Summary Oxysterols regulate cholesterol homeostasis through the liver X receptor (LXR)- and sterol regulatory element-binding protein (SREBP)-mediated signaling pathways. 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. [provided by RefSeq]

Other Designations INSIG-1 membrane protein

Publication Reference

- [Sex differences in hepatic regulation of cholesterol homeostasis.](#)

De Marinis E, Martini C, Trentalance A, Pallottini V.

The Journal of Endocrinology 2008 Sep; 198(3):635.

Application: WB-Ti, Rat, Rat liver

- [Sterol-regulated ubiquitination and degradation of Insig-1 creates a convergent mechanism for feedback control of cholesterol synthesis and uptake.](#)

Gong Y, Lee JN, Lee PC, Goldstein JL, Brown MS, Ye J.

Cell Metabolism 2006 Jan; 3(1):15.

- [Schoenheimer effect explained--feedback regulation of cholesterol synthesis in mice mediated by Insig proteins.](#)

Engelking LJ, Liang G, Hammer RE, Takaishi K, Kuriyama H, Evers BM, Li WP, Horton JD, Goldstein JL, Brown MS.

The Journal of Clinical Investigation 2005 Sep; 115(9):2489.

Application: WB-Ti, Mouse, Liver

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertriglyceridemia](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Schizophrenia](#)
- [Weight Gain](#)