10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FBP1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7385c

Specification

FBP1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P09467

FBP1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 2203

Other Names
Fructose-1, 6-bisphosphatase 1, FBPase 1, D-fructose-1, 6-bisphosphate 1-phosphohydrolase 1, Liver FBPase, FBP1, FBP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7385c was selected from the Center region of human FBP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FBP1 Antibody (Center) Blocking Peptide - Protein Information

Name FBP1

Synonyms FBP

Function
Catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate in the presence of divalent cations, acting as a rate-limiting enzyme in gluconeogenesis. Plays a role in regulating glucose sensing and insulin secretion of pancreatic beta-cells. Appears to modulate glycerol gluconeogenesis in liver. Important regulator of appetite and adiposity; increased expression of the protein in liver after nutrient excess increases circulating satiety hormones and reduces appetite-stimulating neuropeptides and thus seems to provide a feedback mechanism to limit weight gain.

Tissue Location

Expressed in pancreatic islets.

FBP1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

FBP1 Antibody (Center) Blocking Peptide - Images

FBP1 Antibody (Center) Blocking Peptide - Background

Fructose-1,6-bisphosphatase 1, a gluconeogenesis regulatory enzyme, catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate.
Fructose-1,6-diphosphatase deficiency is associated with hypoglycemia and metabolic acidosis.

FBP1 Antibody (Center) Blocking Peptide - References

Visinoni,S., Am. J. Physiol. Endocrinol. Metab. 295 (5), E1132-E1141 (2008)Kebede,M., Diabetes 57 (7), 1887-1895 (2008)