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FBP1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7385c

Specification

FBP1 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P09467
Other Accession	Q9QXD6
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**36842**
Antigen Region	**125-156**

FBP1 Antibody (Center) - 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

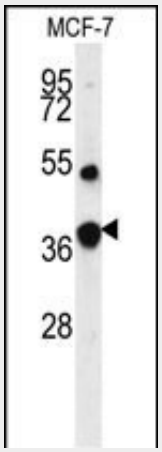
Target/Specificity
This FBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 125-156 amino acids from the Central region of human FBP1.

Dilution
WB~~1:1000
IHC-P~~1:10~50

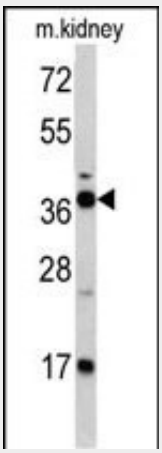
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



Western blot analysis of FBP1 Antibody (Center) (Cat.# AP7385c) in MCF-7 cell line lysates (35ug/lane). FBP1 (arrow) was detected using the purified Pab.



Western blot analysis of FBP1 antibody (Center) (Cat.# AP7385c) in mouse kidney tissue lysates (35ug/lane). FBP1 (arrow) was detected using the purified Pab.

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FBP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

FBP1 Antibody (Center) - Protein Information

Name FBP1

Synonyms FBP

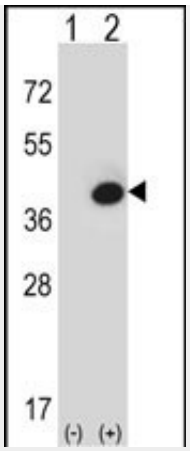
Function
Catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate in the presence of divalent cations, acting as a rate-limiting enzyme in gluconeogenesis. Plays a role in regulating glucose sensing and insulin secretion of pancreatic beta-cells. Appears to modulate glycerol gluconeogenesis 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.

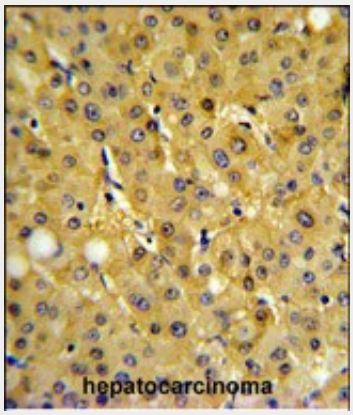
FBP1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



Western blot analysis of FBP1 (arrow) using rabbit polyclonal FBP1 Antibody (Center) (Cat. #AP7385c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FBP1 gene.



FBP1 Antibody (Center) (Cat.# AP7385c) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FBP1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

FBP1 Antibody (Center) - 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) - References

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