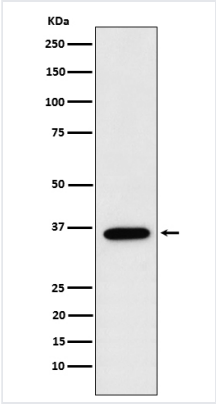
FBP1 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	FBP1, Monoclonal Antibody
Full Product Name	Anti-FBP1 Rabbit Monoclonal Antibody
Product Gene Name	anti-FBP1 antibody
Clonality	Monoclonal
Isotype	IgG
Clone Number	21F87
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Purity/Purification	Affinity-chromatography
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure. (lot specific)
Preparation and Storage	Store at -20 degree C for one year. For short term storage and frequent use, store at 4 degree C for up to one month. Avoid repeated freeze-thaw cycles.
Molecular Weight	36,842 Da
OMIM	229700
3D Structure	ModBase 3D Structure for P09467
Immunogen	A synthesized peptide derived from human FBP1
Product Categories/Family for anti-FBP1 antibody	Primary Antibodies, Rabbit Monoclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-FBP1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-FBP1 antibody	WB: 1:500-1:2000 ICC/IF 1:50-1:200 IP: 1:50
Related Product Information for anti-FBP1 antibody	MBS1756767 is an antibody targeting FBP1. Also known as Anti-FBP1 Rabbit Monoclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-FBP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-FBP1 antibody
Western blot analysis of FBP1 expression in MCF7 cell lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FBP1. It may not necessarily be applicable to this product.

NCBI GI #	16579888
NCBI GeneID	2203
NCBI Accession #	NP_000498.2
UniProt Primary Accession #	P09467
UniProt Secondary Accession #	O75571; Q53F94; Q96E46
UniProt Related Accession #	P09467
GenBank Nucleotide #	NM_000507.3
NCBI Official Full Name	fructose-1,6-bisphosphatase 1
NCBI Official Synonym Full Names	fructose-1,6-bisphosphatase 1
NCBI Official Symbol	FBP1
NCBI Official Synonym Symbols	FBP
UniProt Protein Name	Fructose-1,6-bisphosphatase 1
UniProt Synonym Protein Names	D-fructose-1,6-bisphosphate 1-phosphohydrolase 1; Liver FBPase
Protein Family	Fat-body protein
UniProt Gene Name	FBP1
UniProt Synonym Gene Names	FBP; FBPase 1
UniProt Entry Name	F16P1_HUMAN
NCBI Protein Information	fructose-1,6-bisphosphatase 1; D-fructose-1,6-bisphosphate 1-phosphohydrolase 1; FBPase 1; fructose-bisphosphatase 1; growth-inhibiting protein 17; liver FBPase
NCBI Summary for FBP1	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. [provided by RefSeq, Jul 2008]

UniProt Comments for FBP1	FBPase: a key enzyme of gluconeogenesis that catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate, a precursor to glucose 6-phosphate. A regulator of glucose synthesis from non-carbohydrates. Two paralogs of this enzyme exists in humans, FBP1 in the liver and FBP2 in muscle. While both forms are inhibited allosterically by AMP, NAD and Ca2+, the muscle form is about 100-fold more sensitive to AMP and NAD, and about 1000-fold more sensitive to inhibition by Ca2+. Forms homotetramers that are stabilized in the active state by divalent cations (Mg2+, Mn2+ , Co+2, or Zn2+). Deficiency of FBP1 leads to a disorder mainly in the liver and causes life-threatening episodes of hypoglycemia and metabolic acidosis (lactacidemia) in newborn infants or young children. Protein type: Carbohydrate Metabolism - glycolysis and gluconeogenesis; Phosphatase (non-protein); EC 3.1.3.11; Mitochondrial; Carbohydrate Metabolism - pentose phosphate pathway; Carbohydrate Metabolism - fructose and mannose Chromosomal Location of Human Ortholog: 9q22.3 Cellular Component: cytoplasm; cytosol Molecular Function: monosaccharide binding; identical protein binding; protein binding; metal ion binding; fructose-bisphosphatase activity; AMP binding Biological Process: dephosphorylation; carbohydrate metabolic process; glucose metabolic process; negative regulation of Ras protein signal transduction; regulation of gluconeogenesis; pathogenesis; negative regulation of cell growth; fructose 6-phosphate metabolic process; negative regulation of glycolysis; fructose metabolic process; protein homotetramerization; gluconeogenesis Disease: Fructose-1,6-bisphosphatase Deficiency
Research Articles on FBP1	**1.** the gluconeogenic enzyme fructose-1,6-bisphosphatase 1 (FBP1) is uniformly depleted in over six hundred clear cell renal cell carcinoma tumours examined.
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