Human/Mouse/Rat FBPase 1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7285

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, rat FBPase 1 in Western blots and detects human FBPase 1 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human FBPase 1 Ala2-Gln338 (Arg218Lys) Accession # P09467
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

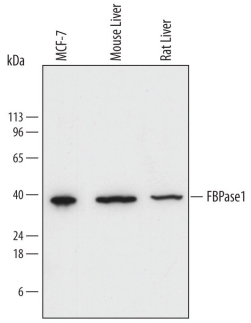
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below

DATA

Western Blot



Detection of Human, Mouse, and Rat FBPase 1 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, mouse liver tissue, and rat liver tissue. PVDF membrane was probed with 0.2 µg/mL of Sheep Anti-Human/Mouse/Rat FBPase 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7285) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for FBPase 1 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FBPase 1 (Fructose 1,6 bisphosphatase 1 [Fru-1,6-P2ase]; also FBP-1 phosphohydrolase 1) is a 35-37 kDa member of the FBPase Class I family of enzymes. It is widely expressed, being found in cells diverse as monocytes, hepatocytes, pancreatic β-cells and striated (skeletal plus cardiac) muscle cells. FBPase 1 converts Fru-1,6-P2 into Fru-6-P, a molecule that is subsequently used to generate glucose. Human FBPase 1 is 338 amino acids (aa) in length. It contains one catalytic region (aa 18-332) and an NLS between aa 203-208. FBPase 1 exhibits divalent cation dependency, and exists as a homotetramer within the cell. Full-length human FBPase 1 shares 85% aa sequence identity with mouse FBPase 1.

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