

Human/Mouse/Rat FBPase 1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7285

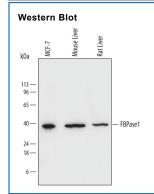
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse, rat FBPase 1 in Western blots and detects human FBPase 1 in direct ELISAs.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human FBPase 1 Ala2-Gln338 (Arg218Lys) 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 either lyophilized or 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.

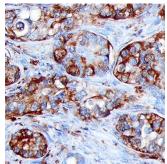
	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below

DATA



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 Ig6 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.

Immunohistochemistry



FBPase 1 in Human Liver Cancer Tissue. FBPase 1 was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Sheep Anti-Human/Mouse/Rat FBPase 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7285) at 15 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Sheep IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC006). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in cancer cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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

- 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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