

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, rat FB Pase 1 in Western blots and detects human FB Pase 1 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FB Pase 1 Ala2-Gln338 (Arg218Lys) Accession # P09467
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

FB Pase 1 (Fructose 1,6 biphosphatase 1 [Fru-1,6-P2ase]; also FB P-1 phosphohydrolase 1) is a 35-37 kDa member of the FB Pase 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. FB Pase 1 converts Fru-1,6-P2 into Fru-6-P, a molecule that is subsequently used to generate glucose. Human FB Pase 1 is 338 amino acids (aa) in length. It contains one catalytic region (aa 18-332) and an NLS between aa 203-208. FB Pase 1 exhibits divalent cation dependency, and exists as a homotetramer within the cell. Full-length human FB Pase 1 shares 85% aa sequence identity with mouse FB Pase 1.

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