

For Research Use Only

FBP2 Recombinant antibody

Catalog Number: 83910-5-RR



Basic Information

Catalog Number: 83910-5-RR	GenBank Accession Number: BC113632	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 8789	CloneNo.: 240879C9
Source: Rabbit	UNIPROT ID: O00757	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:300-1:1200 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: fructose-1,6-bisphosphatase 2	
Immunogen Catalog Number: AG18245	Calculated MW: 339 aa, 37 kDa	
	Observed MW: 37 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : mouse heart tissue, rat skeletal muscle tissue

IHC : mouse skeletal muscle tissue, human ovary
cancer tissue

IF/ICC : mouse skeletal muscle tissue,

Background Information

FBP2, also named muscle FBP, belongs to the FBPase class 1 family. FBP2 is a ubiquitously expressed enzyme of glycogen synthesis from non-carbohydrates, e.g., lactate (glyconeogenesis). However, it also plays a variety of non-enzymatic functions. FBP2 is involved in the regulation of hypoxia-inducible factor 1 (Hif1) stability, cell cycle-dependent events, biogenesis of mitochondria, and protection of the organelles against high reactive oxygen species (ROS)- and high Ca²⁺-induced stress (PMID: 32962293, PMID: 35626746). The calculated molecular weight of FBP2 is 37 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

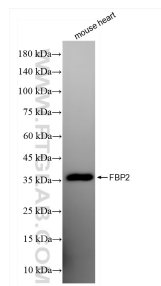
T: 4006900926

E: Proteintech-CN@ptglab.com

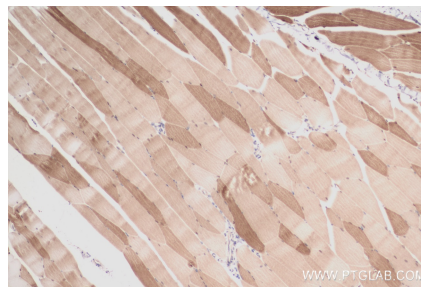
W: ptgcn.com

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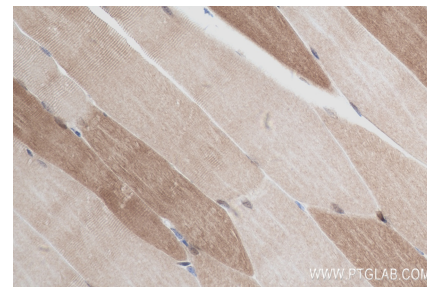
Selected Validation Data



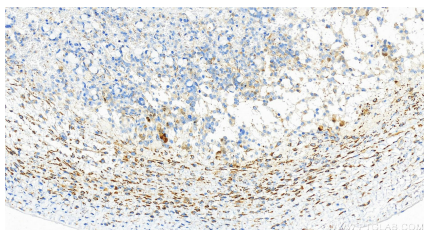
Mouse heart tissue were subjected to SDS PAGE followed by western blot with 83910-5-RR (FBP2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



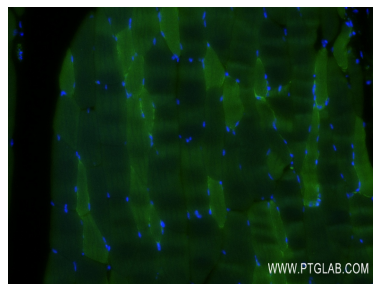
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 83910-5-RR (FBP2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



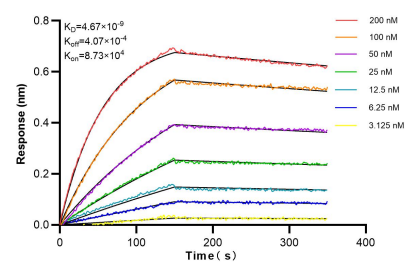
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 83910-5-RR (FBP2 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83910-5-RR (FBP2 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using FBP2 antibody (83910-5-RR, Clone: 240879C9) at dilution of 1:250 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Bi-layer interferometry (BLI) kinetic assays of 83910-5-RR against Human FBP2 were performed. The affinity constant is 4.67 nM.