

For Research Use Only

# FBP2 Recombinant antibody

Catalog Number:83910-5-RR



## Basic Information

<b>Catalog Number:</b> 83910-5-RR	<b>GenBank Accession Number:</b> BC113632	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8789	<b>CloneNo.:</b> 240879C9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O00757	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:300-1:1200 IF/ICC 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> fructose-1,6-bisphosphatase 2	
<b>Immunogen Catalog Number:</b> AG18245	<b>Calculated MW:</b> 339 aa, 37 kDa	
	<b>Observed MW:</b> 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 Ca<sup>2+</sup>-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

**\*\*\* 20ul sizes contain 0.1% BSA**

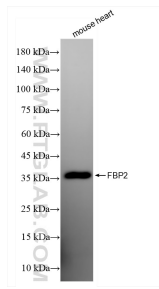
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
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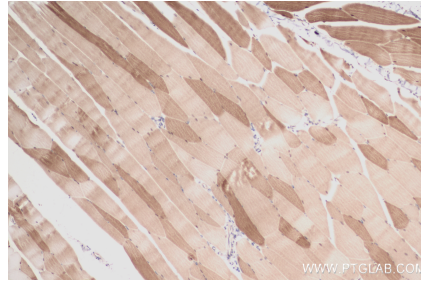
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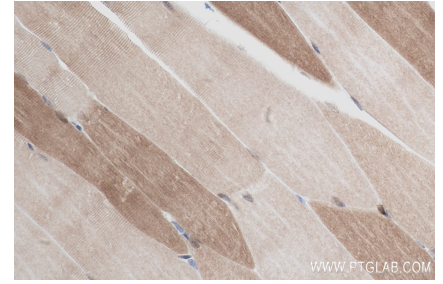
## Selected Validation Data



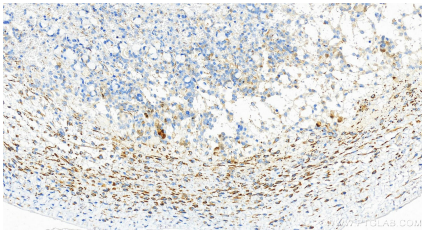
Mouse heart tissue were subjected to SDS PAGE followed by western blot with 83910-5-RR (FBP2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



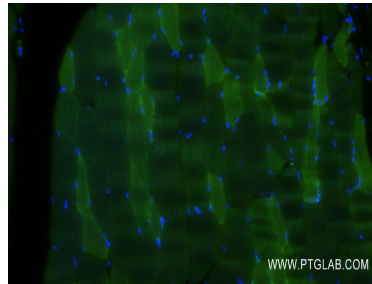
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 83910-5-RR (FBP2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



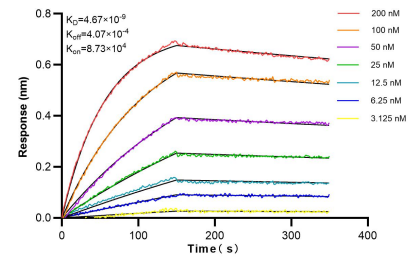
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 83910-5-RR (FBP2 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.