

For Research Use Only

# PFKP Monoclonal antibody

Catalog Number: 68129-1-Ig **2 Publications**



## Basic Information

|                                      |   |   |
|--------------------------------------|---|---|
| Catalog Number:<br>68129-1-Ig        | GenBank Accession Number:<br>BC029138                         | Purification Method:<br>Protein G purification                    |
| Concentration:<br>500 ug/ml          | GeneID (NCBI):<br>5214  | CloneNo.:<br>1H4D4  |
| Source:<br>Mouse                     | UNIPROT ID:<br>Q01813   | Recommended Dilutions:<br>WB 1:5000-1:50000<br>IF/ICC 1:200-1:800 |
| Isotype:<br>IgG1                     | Full Name:<br>phosphofructokinase, platelet                   |   |
| Immunogen Catalog Number:<br>AG25206 | Calculated MW:<br>784 aa, 86 kDa<br>Observed MW:<br>80-86 kDa |   |

## Applications

|   |   |
|---|---|
| Tested Applications:<br>WB, IF/ICC, ELISA         | Positive Controls:  |
| Cited Applications:<br>WB                         | WB : LNCaP cells, rabbit brain tissue, rat brain tissue, mouse brain tissue, A549 cells, MCF-7 cells, HEK-293 cells, HeLa cells, Jurkat cells |
| Species Specificity:<br>human, mouse, rat, rabbit | IF/ICC : HeLa cells, BxPC-3 cells   |
| Cited Species:<br>human, mouse                    |   |

## Background Information

PFKP(6-phosphofructokinase, platelet type) is also named as PFKF, PFK-C and belongs to the phosphofructokinase family. This form of PFK is best called the 'platelet' type and symbolized PFKP because it is the only form made by platelets, whereas fibroblasts have more than one form of PFK (Francke (1983)). PFK catalyzes the irreversible conversion of fructose-6-phosphate to fructose-1,6-bisphosphate and is a key regulatory enzyme in glycolysis. The observed molecular weight of PFKP monomer is 80-86 kDa. The molecular mass of PFKP dimer is 171 kDa (PMID: 28607489).

## Notable Publications

| Author               | Pubmed ID | Journal    | Application |
|----------------------|-----------|------------|-------------|
| Stephanie Zur Nedden | 39332493  | Metabolism | WB          |
| Navid Koleini        | 37873321  | medRxiv    | WB          |

## Storage

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

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

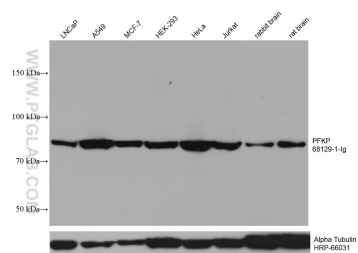
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

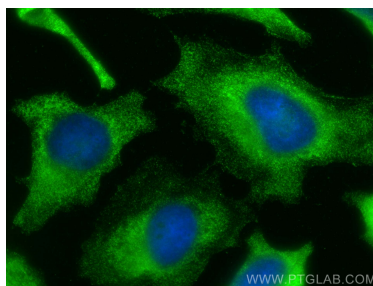
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68129-1-Ig (PFKFB3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PFKFB3 antibody (68129-1-Ig, Clone: 1H4D4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).