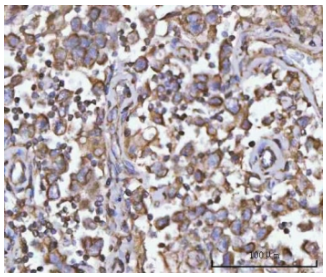
PFKFB1 Antibody / Fructose-2,6-bisphosphatase (RQ8134)

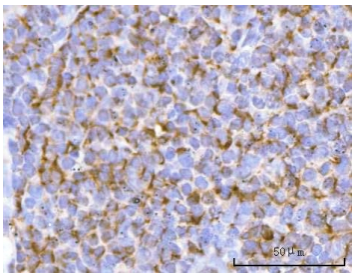
Catalog No.	Formulation	Size
RQ8134	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

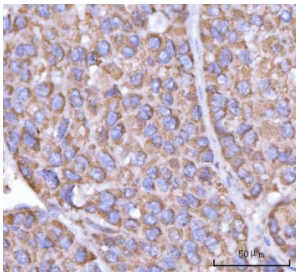
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P16118
Localization	Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This PFKFB1 antibody is available for research use only.



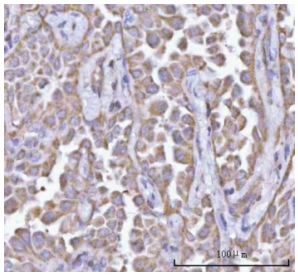
IHC staining of FFPE human testicular seminoma tissue with PFKFB1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



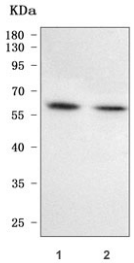
IHC staining of FFPE human tonsil tissue with PFKFB1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



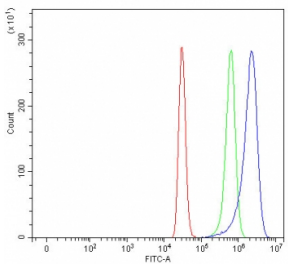
IHC staining of FFPE human liver cancer tissue with PFKFB1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lung adenocarcinoma tissue with PFKFB1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HCCT and 2) HCCP cell lysate with PFKFB1 antibody. Predicted molecular weight ~55 kDa and ~47 kDa (two isoforms).



Flow cytometry testing of fixed and permeabilized human HepG2 cells with PFKFB1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PFKFB1 antibody.

Description

6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1 is an enzyme that in humans is encoded by the PFKFB1 gene. This gene encodes a member of the family of bifunctional 6-phosphofructo-2-kinase:fructose-2,6-biphosphatase enzymes. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. Multiple alternatively spliced transcript variants have been found for this gene.

Application Notes

Optimal dilution of the PFKFB1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids R12-R186) was used as the immunogen for the PFKFB1 antibody.

Storage

After reconstitution, the PFKFB1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.