abcam

Product datasheet

Anti-PKM2 antibody ab210114

2 Images

Overview

Product name	Anti-PKM2 antibody
Description	Rabbit polyclonal to PKM2
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Zebrafish
Immunogen	Recombinant fragment within Zebrafish PKM2 aa 264-532. The exact sequence is proprietary. Database link: 335817
Positive control	Whole Zebrafish and Zebrafish heart whole cell lysates; Zebrafish tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab210114** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

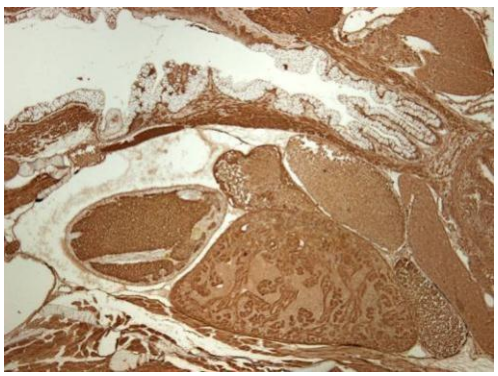
Application	Abreviews	Notes
IHC-P		1/100 - 1/1000. Suggested antigen retrieval using 1mM EDTA-NaOH (pH8.0) 95°C, 1 Hour

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 58 kDa.

Target

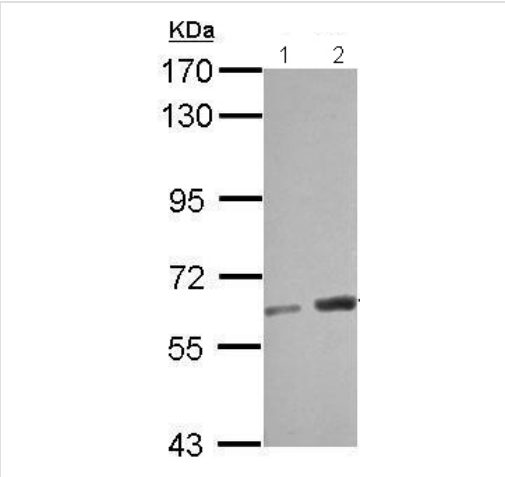
Function	Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.
Tissue specificity	Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells.
Pathway	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 5/5.
Sequence similarities	Belongs to the pyruvate kinase family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR. lSGylated.
Cellular localization	Cytoplasm. Nucleus. Translocates to the nucleus in response to different apoptotic stimuli. Nuclear translocation is sufficient to induce cell death that is caspase independent, isoform-specific and independent of its enzymatic actvity.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKM2 antibody (ab210114)

Immunohistochemical analysis of paraffin-embedded Zebrafish tissue labeling PKM2 with ab210114 at 1/300 dilution.



Western blot - Anti-PKM2 antibody (ab210114)

All lanes : Anti-PKM2 antibody (ab210114) at 1/1000 dilution

Lane 1 : Zebrafish whole cell lysate

Lane 2 : Zebrafish heart whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 58 kDa

7.5% SDS PAGE

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