**Product datasheet**

**Anti-PKM antibody [EPR10139] ab154816**

1 References  3 Images

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**Overview**

**Product name**  Anti-PKM antibody [EPR10139]

**Description**  Rabbit monoclonal [EPR10139] to PKM

**Host species**  Rabbit

**Tested applications**  
**Suitable for:** WB, IHC-P  
**Unsuitable for:** Flow Cyt, ICC/IF or IP

**Species reactivity**  
**Reacts with:** Mouse, Rat, Human

**Immunogen**  
Synthetic peptide corresponding to Human PKM (internal sequence).  
Database link: P14618

**Positive control**  
Human fetal muscle tissue lysate; HeLa; A549 and Jurkat cell lysates; Human kidney and cervical carcinoma tissue.

**General notes**

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

This product is a recombinant rabbit monoclonal antibody.

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**Properties**

**Form**  Liquid

**Storage instructions**  Shipped at 4°C. Store at -20°C.

**Storage buffer**  
Preservative: 0.01% Sodium azide  
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant

**Purity**  Tissue culture supernatant

**Clonality**  Monoclonal

**Clone number**  EPR10139

**Isotype**  IgG

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**Applications**
Our **Abpromise guarantee** covers the use of ab154816 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>IHC-P</td>
<td>1/100 - 1/250.</td>
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**Application notes**

Is unsuitable for Flow Cyt, ICC/IF or IP.

**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**

ISGylated. Under hypoxia, hydroxylated by EGLN3. Acetylation at Lys-305 is stimulated by high glucose concentration, it decreases enzyme activity and promotes its lysosomal-dependent degradation via chaperone-mediated autophagy. FGFR1-dependent tyrosine phosphorylation is reduced by interaction with TRIM35.

**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 activity.
**Western blot - Anti-PKM antibody [EPR10139]** (ab154816)

**All lanes** : Anti-PKM antibody [EPR10139] (ab154816) at 1/1000 dilution

**Lane 1** : Human fetal muscle tissue lysate

**Lane 2** : HeLa cell lysate

**Lane 3** : A549 cell lysate

**Lane 4** : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 58 kDa

Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma, labeling PKM using ab154816 at 1/100 dilution.

Immunohistochemical analysis of paraffin-embedded human kidney, labeling PKM using ab154816 at 1/100 dilution.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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