

## Product datasheet

# Anti-PHKG1 antibody [EPR14812] - BSA and Azide free ab251179

Recombinant RabMAb

[7 Images](#)

### Overview

<b>Product name</b>	Anti-PHKG1 antibody [EPR14812] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR14812] to PHKG1 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab251179 is the carrier-free version of <a href="#">ab194112</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR14812
<b>Isotype</b>	IgG

## Applications

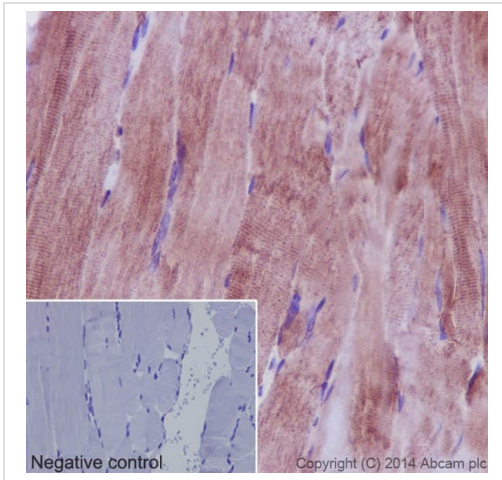
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab251179 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 40 kDa (predicted molecular weight: 45 kDa).
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
<b>ICC/IF</b>		Use at an assay dependent concentration.

## Target

<b>Function</b>	Catalytic subunit of the phosphorylase b kinase (PHK), which mediates the neural and hormonal regulation of glycogen breakdown (glycogenolysis) by phosphorylating and thereby activating glycogen phosphorylase. In vitro, phosphorylates PYGM, TNNI3, MAPT/TAU, GAP43 and NRGN/RC3.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. Contains 1 protein kinase domain.
<b>Domain</b>	The two calmodulin-binding domains appear to act in concert to bind a single molecule of calmodulin and are pseudosubstrate/autoinhibitory domains.

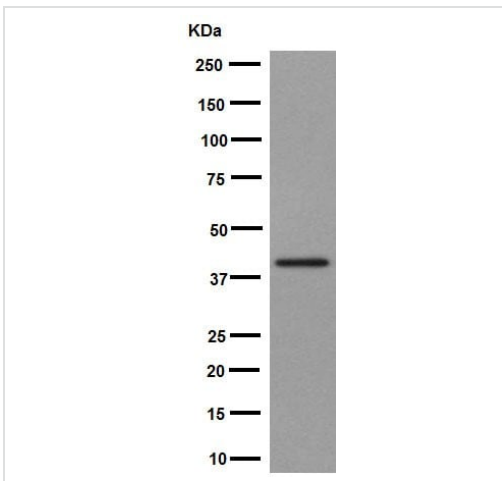
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHKG1 antibody [EPR14812] - BSA and Azide free (ab251179)

This data was developed using **ab194112**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling PHKG1 with **ab194112** at 1/250 dilution, followed by prediluted HRP Polymer for Rabbit/Mouse IgG. Counter stained with Hematoxylin. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-PHKG1 antibody [EPR14812] - BSA and Azide free (ab251179)

Anti-PHKG1 antibody [EPR14812] (**ab194112**) at 1/20000 dilution + Human skeletal muscle tissue lysate at 10 µg

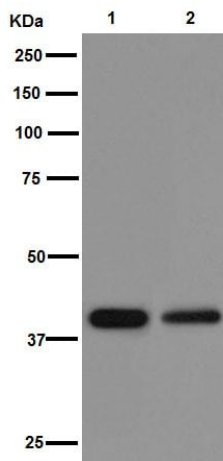
**Secondary**

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 45 kDa

**Observed band size:** 40 kDa

This data was developed using **ab194112**, the same antibody clone in a different buffer formulation.



Western blot - Anti-PHKG1 antibody [EPR14812] - BSA and Azide free (ab251179)

**All lanes** : Anti-PHKG1 antibody [EPR14812] ([ab194112](#)) at 1/1000 dilution

**Lane 1** : Mouse muscle tissue lysate

**Lane 2** : Rat muscle tissue lysate

Lysates/proteins at 10 µg per lane.

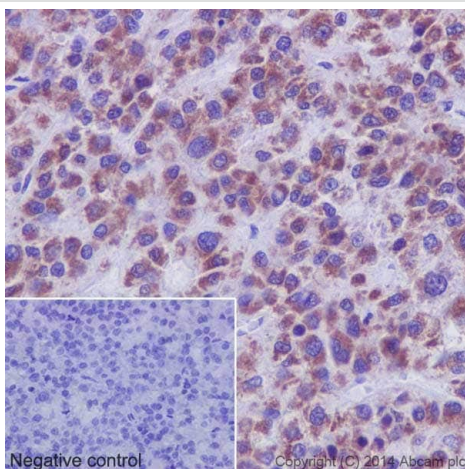
#### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 45 kDa

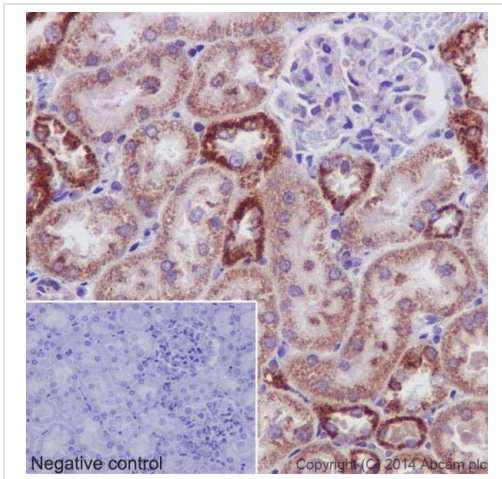
**Observed band size:** 40 kDa

This data was developed using [ab194112](#), the same antibody clone in a different buffer formulation.



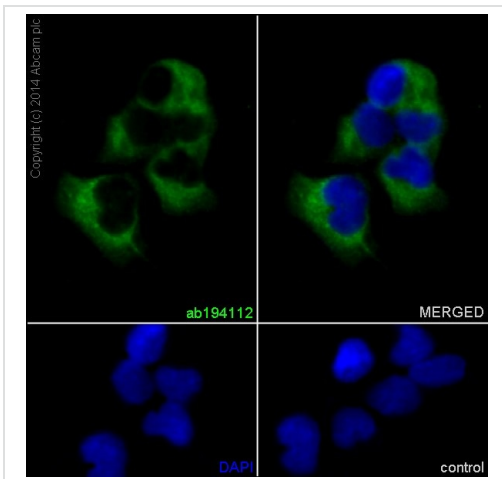
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHKG1 antibody [EPR14812] - BSA and Azide free (ab251179)

This data was developed using [ab194112](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling PHKG1 with [ab194112](#) at 1/250 dilution, followed by prediluted HRP Polymer for Rabbit/Mouse IgG. Counter stained with Hematoxylin. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



This data was developed using **ab194112**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling PHKG1 with **ab194112** at 1/250 dilution, followed by prediluted HRP Polymer for Rabbit/Mouse IgG. Counter stained with Hematoxylin. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHKG1 antibody [EPR14812] - BSA and Azide free (ab251179)



This data was developed using **ab194112**, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% tritonX-100 permeabilized A673 cells labeling PHKG1 with **ab194112** at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor®488) secondary antibody (**ab150077**) at 1/400 dilution. Nuclear counter stain is DAPI (blue).

Immunocytochemistry/ Immunofluorescence - Anti-PHKG1 antibody [EPR14812] - BSA and Azide free (ab251179)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-PHKG1 antibody [EPR14812] - BSA and Azide free (ab251179)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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