

## Product datasheet

# Anti-POMK antibody ab272564

3 Images

### Overview

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<b>Product name</b>	Anti-POMK antibody
<b>Description</b>	Rabbit polyclonal to POMK
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human POMK aa 200-350. Database link: <a href="#">Q9H5K3</a> <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: HEK-293T cells. IHC-P: Human placenta tissue. ICC/IF: U-251 MG.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab272564 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
ICC/IF		Use a concentration of 0.25 - 2 µg/ml.
WB		Use a concentration of 0.04 - 0.4 µg/ml.
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Protein O-mannose kinase that specifically mediates phosphorylation at the 6-position of an O-mannose of the trisaccharide (N-acetylgalactosamine (GalNAc)-beta-1,3-N-acetylglucosamine (GlcNAc)-beta-1,4-mannose) to generate phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-1,3-N-acetylglucosamine-beta-1,4-(phosphate-6-)mannose). Phosphorylated O-mannosyl trisaccharide is a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity. Only shows kinase activity when the GalNAc-beta-3-GlcNAc-beta-terminus is linked to the 4-position of O-mannose, suggesting that this disaccharide serves as the substrate recognition motif.

### Involvement in disease

Muscular dystrophy-dystroglycanopathy congenital with brain and eye anomalies A12

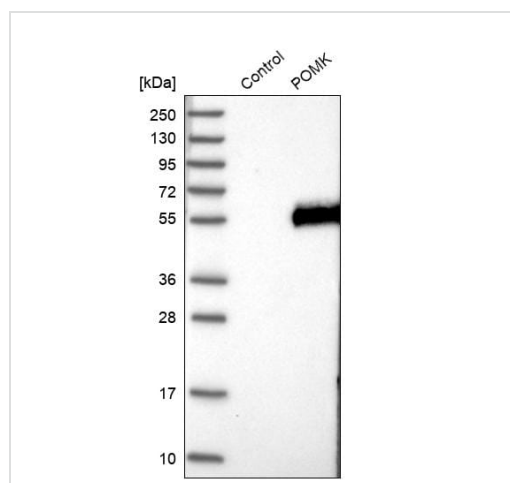
### Sequence similarities

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. STKL subfamily. Contains 1 protein kinase domain.

### Cellular localization

Endoplasmic reticulum membrane.

## Images



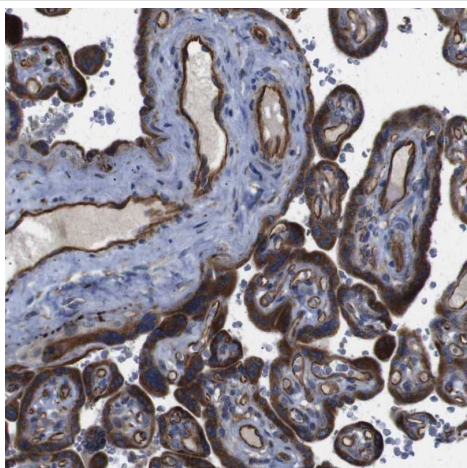
Western blot - Anti-POMK antibody (ab272564)

**Lanes 2-3** : Anti-POMK antibody (ab272564) at 0.4 µg/ml

**Lane 1** : Molecular weight ladder

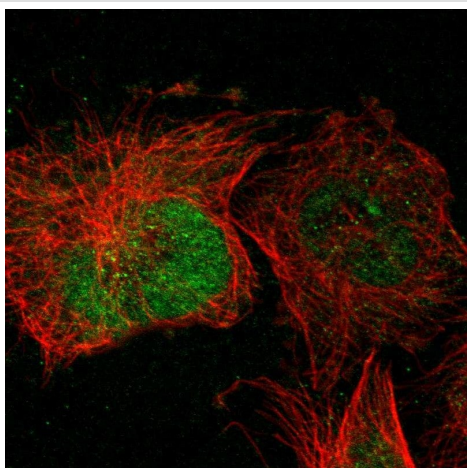
**Lane 2** : Control (vector only transfected HEK-293T lysate)

**Lane 3** : POMK over-expression lysate (mammalian HEK-293T cells)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POMK antibody (ab272564)

Paraffin-embedded formalin-fixed Human placenta tissue stained for POMK using ab272564 at 1/50 in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-POMK antibody (ab272564)

PFA fixed, Triton X-100 permeabilized human cell line U-251 MG labeling POMK (green) using ab272564 at 2 ug/ml in ICC/IF analysis.

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

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