

## Product datasheet

### Anti-VPS34 antibody [EPR5301] ab124905

Recombinant RabMAb

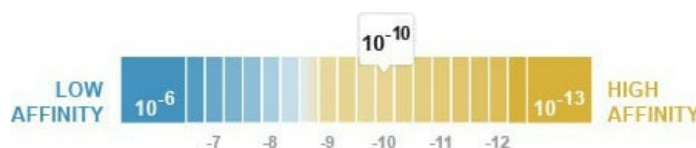
[13 References](#) [4 Images](#)

#### Overview

Product name	Anti-VPS34 antibody [EPR5301]
Description	Rabbit monoclonal [EPR5301] to VPS34
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide within Human VPS34 aa 800-900. The exact sequence is proprietary.
Positive control	L6, C2C12, 293T, SHYSY-5Y cell lysates; Mouse brain tissue lysate; Human gastric adenocarcinoma tissue
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . 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> .

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K <sub>D</sub> )	K <sub>D</sub> = 3.27 x 10 <sup>-10</sup> M



[Learn more about K<sub>D</sub>](#)

Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide
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	Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR5301
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124905 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

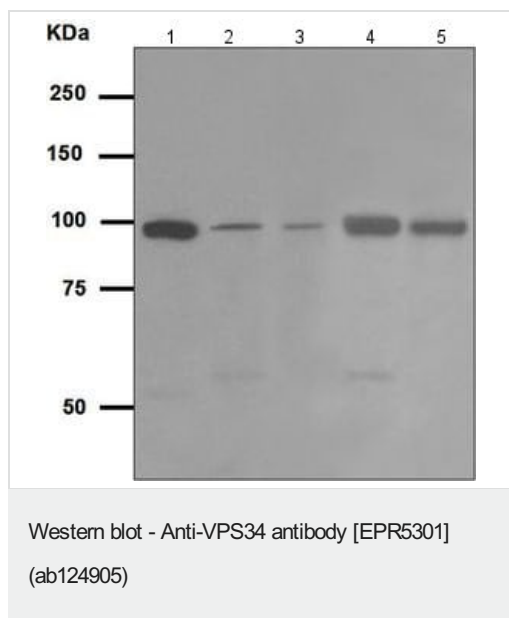
Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Detects a band of approximately 100 kDa (predicted molecular weight: 102 kDa).
<b>IHC-P</b>		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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

## Target

<b>Function</b>	Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for the abscission step in cytokinesis.
<b>Tissue specificity</b>	Ubiquitously expressed, with a highest expression in skeletal muscle.
<b>Sequence similarities</b>	Belongs to the PI3/PI4-kinase family. Contains 1 PI3K/PI4K domain.
<b>Cellular localization</b>	Midbody.

## Images



**All lanes :** Anti-VPS34 antibody [EPR5301] (ab124905) at 1/1000 dilution

**Lane 1 :** L6 cell lysate

**Lane 2 :** C2C12 cell lysate

**Lane 3 :** 293T cell lysate

**Lane 4 :** Mouse brain tissue lysate

**Lane 5 :** SHSY-5Y cell lysate

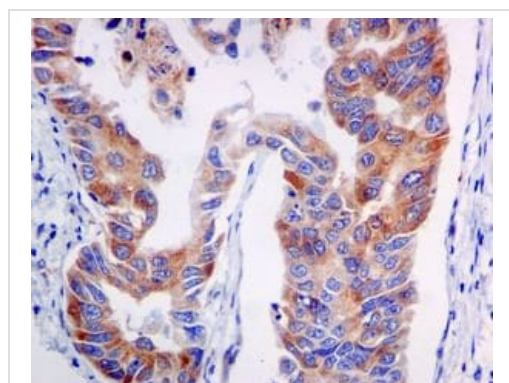
Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 102 kDa

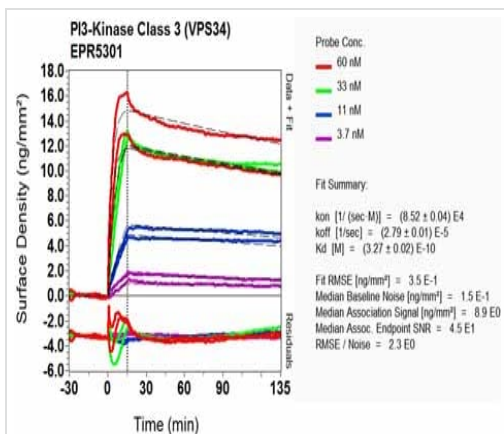
**Observed band size:** 100 kDa



ab124905, at 1/50 dilution, staining PI 3 Kinase in paraffin-embedded Human gastric adenocarcinoma tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VPS34 antibody [EPR5301] (ab124905)



SPR Scanning - Anti-VPS34 antibody [EPR5301]  
(ab124905)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

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-VPS34 antibody [EPR5301] (ab124905)

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

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