

Datasheet: AHP2224

**BATCH NUMBER 154693**

<b>Description:</b>	RABBIT ANTI VPS34
<b>Specificity:</b>	VPS34
<b>Other names:</b>	PI3-KINASE TYPE 3
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			2.0 - 4.0ug/ml
Immunofluorescence	▪			1/100

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species** Human

**Species Cross Reactivity** Reacts with: Mouse, Rat  
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form** Purified IgG - liquid

**Antiserum Preparation** Antiserum to human VSP34 was raised by repeated immunisation of rabbits with highly

purified antigen. Purified IgG was prepared by affinity chromatography.

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<b>Buffer Solution</b>	Phosphate buffered saline.
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<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
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<b>Immunogen</b>	KLH conjugated synthetic peptide corresponding to amino acids 22-34 of human VPS34, The corresponding sequence is identical in mouse and rat.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q8NEB9</a> <a href="#">Related reagents</a> <a href="#">O88763</a> <a href="#">Related reagents</a> <a href="#">Q6PF93</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">5289</a> PIK3C3 <a href="#">Related reagents</a> <a href="#">65052</a> Pik3c3 <a href="#">Related reagents</a> <a href="#">225326</a> Pik3c3 <a href="#">Related reagents</a>
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<b>Synonyms</b>	Vps34, VPS34
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<b>RRID</b>	AB_10845944
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<b>Specificity</b>	<p><b>Rabbit anti VPS34 antibody</b> recognises Phosphatidylinositol 3-kinase catalytic subunit type 3, also known as VPS34 (vacuolar protein sorting 34), PI3-kinase type 3 or PIK3C3. VPS34 is a ubiquitously expressed class III PI3K (phosphoinositide 3-kinase), and member of the PI3/PI4-kinase family, which utilizes phosphatidylinositol (PtdIn) as a substrate, and functions as the catalytic subunit of the PI3K complex.</p> <p>VPS34 plays a role in the transport of lysosomal enzyme precursors to lysosomes, and in endocytosis and vesicular trafficking, and has been strongly implicated as a regulator of autophagy, forming a multi-protein complex with the proautophagic tumor suppressors Beclin1/Atg6, Bif-1, and UVRAG, in the initiation of autophagosome formation. Distinct complexes of VPS34 regulates endocytic processes vital for late-stage autophagosome-lysosome fusion.</p>
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<b>Western Blotting</b>	AHP224 detects a band of approximately 105kDa in HEK-293T cell lysates.
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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2224">https://www.bio-rad-antibodies.com/SDS/AHP2224</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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