

Datasheet: AHP2224

BATCH NUMBER 166828

Description:	RABBIT ANTI VPS34
Specificity:	VPS34
Other names:	PI3-KINASE TYPE 3
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Buffer Solution	Phosphate buffered saline.
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Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
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Approx. Protein Concentrations	IgG concentration 1.0mg/ml
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Immunogen	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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External Database Links	UniProt: Q8NEB9 Related reagents O88763 Related reagents Q6PF93 Related reagents Entrez Gene: 5289 PIK3C3 Related reagents 65052 Pik3c3 Related reagents 225326 Pik3c3 Related reagents
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Synonyms	Vps34, VPS34
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RRID	AB_10845944
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Specificity	<p>Rabbit anti VPS34 antibody 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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Western Blotting	AHP224 detects a band of approximately 105kDa in HEK-293T cell lysates.
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Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in

frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP2224 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

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

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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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