

## Datasheet: AHP2188

<b>Description:</b>	RABBIT ANTI HUMAN WNT-3a
<b>Specificity:</b>	WNT-3a
<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 (1)	▪			
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

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.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilized
<b>Reconstitution</b>	<p>Reconstitute with 0.1ml distilled water</p> <p>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.</p>

**Antiserum Preparation** Antiserum to human WNT-3a were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml after reconstitution
<b>Immunogen</b>	Recombinant human WNT-3a.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P56704</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">89780</a>    WNT3A    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_10844208
<b>Specificity</b>	<p><b>Rabbit anti Human WNT-3a antibody</b> recognizes human WNT-3a, a secreted protein and member of the Wnt family of signalling proteins, acting as a ligand for members of the frizzled family of seven transmembrane receptors. Wnt-3a plays key roles in many developmental and cell fate decisions, including embryonic patterning, CNS development, and cytoskeletal formation.</p> <p>Wnt-3a acts as a promoter of the proliferation of ventral midbrain dopaminergic neuron precursor cells, and has been implicated in the progressive differentiation of anterior neural cells, as well as regulating the survival and expansion of neural progenitors derived from human embryonic stem cells. Wnt3a acts upstream of the Notch signalling pathway, in the regulation of somitogenesis, controlled by a segmentation clock, consisting of molecular oscillators in the Notch, Wnt3a and Fgf8 pathways(<a href="#">Aulehla <i>et al.</i> 2003</a>).</p>
<b>ELISA</b>	AHP2188 may be used in an indirect ELISA or as a capture reagent in a sandwich ELISA with ( <a href="#">AHP2188B</a> ) as the detection antibody.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Lai, Y.H. <i>et al.</i> (2011) SOX4 interacts with plakoglobin in a Wnt3a-dependent manner in prostate cancer cells. <a href="#">BMC Cell Biol. 12: 50.</a></li> <li>Yan, L. <i>et al.</i> (2011) Activation of the canonical Wnt/<math>\beta</math>-catenin pathway in ATF3-induced mammary tumors. <a href="#">PLoS One. 6:e16515.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.  After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>

**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10294 available at:  
10294: <https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[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)  
'M402166:220718'

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