

Datasheet: AHP2188B

Description:	RABBIT ANTI HUMAN WNT-3a:Biotin
Specificity:	WNT-3a
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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	■			0.25 - 1.0ug/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.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - lyophilised
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% bovine serum albumin 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.
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.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.1mg/ml after reconstitution
Immunogen	Recombinant human WNT-3a.

External Database**Links****UniProt:**[P56704](#)[Related reagents](#)**Entrez Gene:**[89780](#)

WNT3A

[Related reagents](#)

Specificity

Rabbit anti Human WNT-3a antibody 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.

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([Aulehla et al. 2003](#)).

ELISA

AHP2188B may be used in a direct ELISA or as the detection antibody in a sandwich ELISA with ([AHP2188](#)) as the capture reagent.

Further Reading

1. Lai, Y.H. *et al.* (2011) SOX4 interacts with plakoglobin in a Wnt3a-dependent manner in prostate cancer cells. [BMC Cell Biol. 12: 50.](#)
2. Yan, L. *et al.* (2011) Activation of the canonical Wnt/ β -catenin pathway in ATF3-induced mammary tumors. [PLoS One. 6:e16515.](#)

Storage

Prior to reconstitution store at -20°C.

After reconstitution store at -20°C.

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.

Shelf Life

3 months from date of reconstitution.

Please see label for expiry date.

Health And Safety Information

Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

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'M316511:180516'

Printed on 16 May 2018