

Datasheet: AHP2268

Description:	GOAT ANTI WNT-3
Specificity:	WNT-3
Other names:	INT4
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 (1)	▪			3.0 - 5.0ug/ml
ELISA	▪			1:16000
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 3.0ug/ml
Immunofluorescence	▪			

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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse Based on sequence similarity, is expected to react with: Dog, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to Wnt-3 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography using the immunizing peptide
Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein	IgG concentration 0.5 mg/ml

Concentrations

Immunogen Synthetic peptide sequence C-GRGHNTRTEKRKEK from the internal region of Wnt-3 (NP_110380.1).

External Database Links

UniProt:

[P56703](#) [Related reagents](#)

Entrez Gene:

[7473](#) WNT3 [Related reagents](#)

Synonyms INT4

Specificity

Goat anti Wnt-3 antibody recognises both human and mouse proto-oncogene Wnt-3, a member of the Wnt family, and ligand of the frizzled family of seven transmembrane receptors.

Wnt-3, otherwise known as Int-4, is involved in cell fate decisions and patterning during embryogenesis, cell signalling during neural tube development, and implicated in the tumorigenesis of several cancers including breast, lung, hepatocellular(HCC), and gastric carcinoma.

Over-expression of Wnt-3 plays a pivotal role in the resistance of HER2-overexpressing breast tumors to the breast cancer treatment drug Trastuzumab, also known as Herceptin ([Wu et al. 2012](#)). The effects of Wnt-3 over-expression included the transactivated expression of EGFR (epidermal growth factor receptor) an increased expression of B-catenin within the nucleus, an increase in N-cadherin and the neural crest transcription factor SLUG, as well as promoting an EMT (epithelial to mesenchymal transition) response.

Goat anti Wnt-3 polyclonal antibody exhibits strong fibrous staining in myoepithelial cells of human breast tissue in paraffin sections.

Goat anti Wnt-3 polyclonal antibody has been shown to stain mouse hippocampal primary astrocytes in ICC/IF studies, which investigated the role of Wnt-3 levels and Wnt-3 expressing astrocytes, in the regulation of age-associated decline in adult neurogenesis ([Okamoto et al. 2011](#)).

Histology Positive Control Tissue

Human breast

Western Blotting

AHP2268 detects a band of approximately 40kDa in HEK293 cell lysates

Storage

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.

Shelf Life

18 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10058 available at: 10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M265574:150109'

Printed on 02 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)