

## Product datasheet

# Anti-Wnt3 $\alpha$ antibody [EPR21889] - BSA and Azide free ab234099

Recombinant RabMAb

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### Overview

<b>Product name</b>	Anti-Wnt3 $\alpha$ antibody [EPR21889] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR21889] to Wnt3 $\alpha$ - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	Unsuitable for human IHC-P. Rat species is recommended based on IHC result. We do not guarantee western blot for rat.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), IP, IHC-P, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Rat E14.5 tissue.
<b>General notes</b>	<p>ab234099 is the carrier-free version of <a href="#">ab219412</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR21889
<b>Isotype</b>	IgG

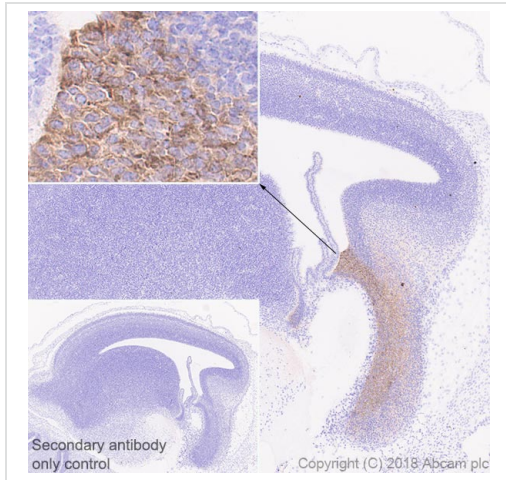
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab234099 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.
<b>IP</b>		Use at an assay dependent concentration.
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. This antibody is not suitable for human species in IHC-P application.
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 39 kDa.
<b>ICC/IF</b>		Use at an assay dependent concentration.

## Target

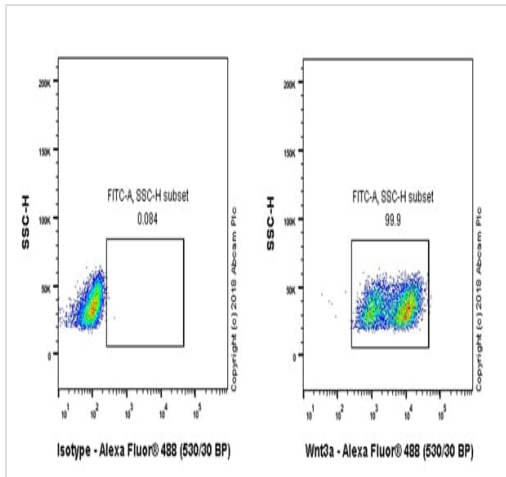
<b>Function</b>	Ligand for members of the frizzled family of seven transmembrane receptors. Wnt-3 and Wnt-3a play distinct roles in cell-cell signaling during morphogenesis of the developing neural tube.
<b>Tissue specificity</b>	Moderately expressed in placenta and at low levels in adult lung, spleen, and prostate.
<b>Sequence similarities</b>	Belongs to the Wnt family.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Wnt3a antibody [EPR21889] - BSA and Azide free (ab234099)

Immunohistochemical analysis of paraffin-embedded mouse E14.5 tissue labeling Wnt3a with **ab219412** at 1/500 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on the hem remnant of mouse E14.5 (PMID: 15509764; PMID: 16410414) is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab219412**).

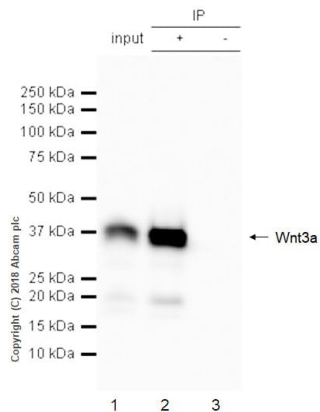


Flow Cytometry (Intracellular) - Anti-Wnt3a antibody [EPR21889] - BSA and Azide free (ab234099)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized L Wnt-3a (Wnt-3a stably transfected mouse subcutaneous connective tissue areolar and adipose fibroblast) cell line (right) labeling Wnt3a with **ab219412** at 1/500 compared with a Rabbit monoclonal IgG (**ab172730**) (left). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**), at 1/2000 dilution was used as the secondary antibody.

Two Wnt3a-expressing populations can be seen labeled in this stably transfected cell line.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab219412**).



Immunoprecipitation - Anti-Wnt3a antibody [EPR21889] - BSA and Azide free (ab234099)

Wnt3a was immunoprecipitated from 0.35 mg L Wnt-3a (Wnt-3a stably-transfected mouse subcutaneous connective tissue areolar and adipose fibroblast) whole cell lysate with **ab219412** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab219412** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

**Lane 1:** L Wnt-3a (Wnt-3a stably-transfected mouse subcutaneous connective tissue areolar and adipose fibroblast) whole cell lysate 10 µg (Input).

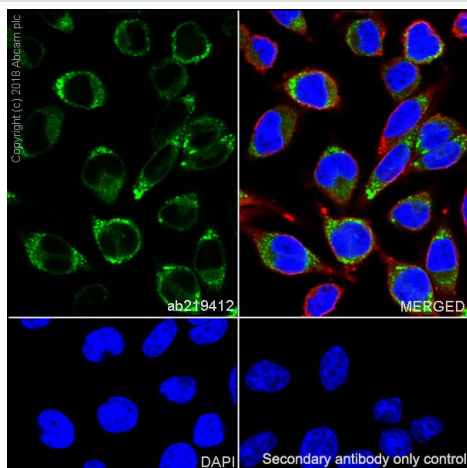
**Lane 2:** **ab219412** IP in L Wnt-3A whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of **ab219412** in L Wnt-3a whole cell lysate.

Blocking/Dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 10 seconds.

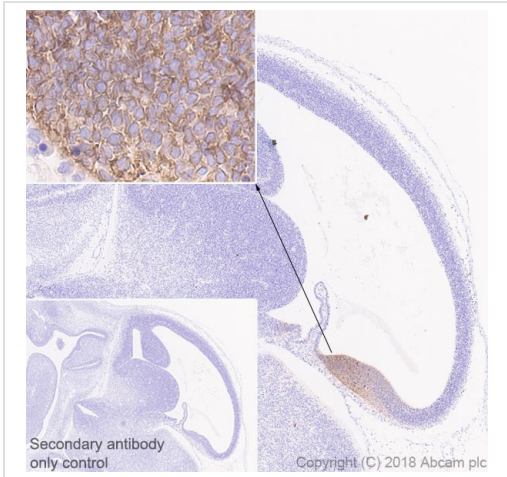
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab219412**).



Immunocytochemistry/ Immunofluorescence - Anti-Wnt3a antibody [EPR21889] - BSA and Azide free (ab234099)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized L Wnt-3a (Wnt-3a stably transfected mouse subcutaneous connective tissue areolar and adipose fibroblast) cells labeling Wnt3a with **ab219412** at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining in L Wnt-3A cell line. The nuclear counter stain is DAPI (blue). Counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution (red). The negative control is the secondary antibody only.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab219412**).







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Wnt3a antibody [EPR21889] - BSA and Azide free (ab234099)

Immunohistochemical analysis of paraffin-embedded rat E14.5 tissue labeling Wnt3a with **ab219412** at 1/500 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on the hem remnant of rat E14.5 (PMID: 15509764; PMID: 16410414) is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

**This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab219412).**

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Wnt3a antibody [EPR21889] - BSA and Azide free (ab234099)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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