

**Datasheet for 200-401-I36****Wnt5A Antibody****Overview**

<b>Description:</b>	Anti-Wnt5a (RABBIT) Antibody - 200-401-I36
<b>Item No.:</b>	200-401-I36
<b>Size:</b>	100 µg
<b>Applications:</b>	IHC, WB
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host Species:</b>	Rabbit

**Product Details**

**Background:** Anti-Wnt5a antibody detects human Wnt5a. Wnt5A is a secreted protein found in the extracellular region that belongs to the Wnt family. It is a proto-oncogene that functions in modulating cell fate and behavior during vertebrate development and has an important role in Wnt signaling pathway. It is a glycoprotein that plays an important role in cell communication and development. Wnt5A acts as a ligand for members of the frizzled family of seven transmembrane receptors. It is suspected that Wnt5A is a developmental protein. Wnt5A is a signaling molecule which affects the development of discrete regions of tissues and is likely to signal over only few cell diameters. Anti-Wnt5a antibody is ideal for investigators involved in cell cycle protein, NFkappaB, and signaling research.

<b>Synonyms:</b>	Wnt-5a
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	WNT5A
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	Wnt5A Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to an internal amino acid sequence for the human protein Wnt5A.
<b>Purity/Specificity:</b>	Anti-Wnt5a Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Wnt5a from rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Wnt5a from other sources has not been determined.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P41221</a></li><li>• <a href="#">NCBI - NP_001243034.1</a></li><li>• <a href="#">GenelD - 7474</a></li></ul>

## Application Details

<b>Tested Applications:</b>	IHC, WB
<b>Application Note:</b>	Anti-Wnt5a antibody is tested for use in IHC, IHC-Fr, IHC-P, and WB. Expect a band approximately 41kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>IHC:</b>	10 µg/mL
<b>WB:</b>	0.5-2 µg/mL

## Formulation

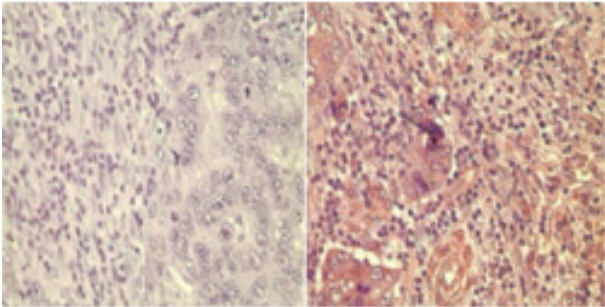
<b>Physical State:</b>	Liquid
<b>Concentration:</b>	0.5 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.05% (w/v) Sodium Azide

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Immunohistochemistry

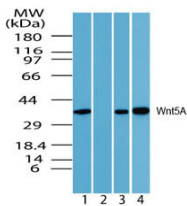
Immunohistochemistry of Rabbit Anti-Wnt5A antibody.  
Tissue: human breast tumor. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required.  
Primary antibody: Wnt5A antibody at 10 µg/mL for 1 h at RT.  
Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Wnt5A is a secreted in the extracellular space and matrix.

Staining: Wnt5A as a precipitated red signal with hematoxylin purple nuclear counterstain.

### Western Blot

Western Blot of Rabbit Anti-Wnt5A antibody. Lane 1: heart lysate without immunizing peptide. Lane 2: heart lysate with immunizing peptide. Lane 3: mouse. Lane 4: rat heart.

Primary antibody: Wnt5A at 0.5 µg/mL for overnight at 4°C.  
Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for Wnt5A. Other band(s): none.



## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.