

**Anti-Wnt4 Antibody**  
**Catalog # ABO11427****Specification**

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**Anti-Wnt4 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P56705</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Protein Wnt-4(WNT4) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Wnt4 Antibody - Additional Information**

**Gene ID** 54361

**Other Names**

Protein Wnt-4, WNT4

**Calculated MW**

39052 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Secreted, extracellular space, extracellular matrix.

**Protein Name**

Protein Wnt-4

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Wnt4(232-249aa HALKEKFDGATEVEPRRV), identical to the related mouse and rat sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-Wnt4 Antibody - Protein Information****Name** WNT4**Function**

Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Plays an important role in the embryonic development of the urogenital tract and the lung (PubMed: <a href="http://www.uniprot.org/citations/15317892" target="\_blank">15317892</a>, PubMed: <a href="http://www.uniprot.org/citations/16959810" target="\_blank">16959810</a>, PubMed: <a href="http://www.uniprot.org/citations/18179883" target="\_blank">18179883</a>, PubMed: <a href="http://www.uniprot.org/citations/18182450" target="\_blank">18182450</a>). Required for normal mesenchyme to epithelium transition during embryonic kidney development. Required for the formation of early epithelial renal vesicles during kidney development (By similarity). Required for normal formation of the Mullerian duct in females, and normal levels of oocytes in the ovaries (PubMed: <a href="http://www.uniprot.org/citations/15317892" target="\_blank">15317892</a>, PubMed: <a href="http://www.uniprot.org/citations/16959810" target="\_blank">16959810</a>, PubMed: <a href="http://www.uniprot.org/citations/18182450" target="\_blank">18182450</a>). Required for normal down-regulation of 3 beta-hydroxysteroid dehydrogenase in the ovary (PubMed: <a href="http://www.uniprot.org/citations/15317892" target="\_blank">15317892</a>, PubMed: <a href="http://www.uniprot.org/citations/16959810" target="\_blank">16959810</a>, PubMed: <a href="http://www.uniprot.org/citations/18182450" target="\_blank">18182450</a>). Required for normal lung development and for normal patterning of tracheal cartilage rings (By similarity).

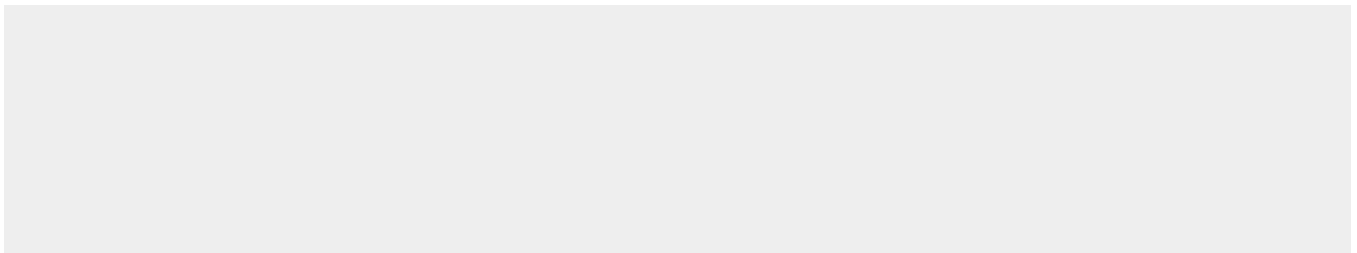
**Cellular Location**

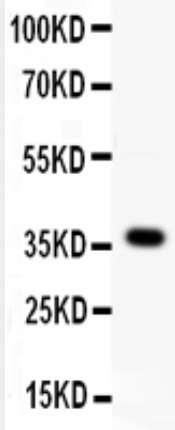
Secreted, extracellular space, extracellular matrix

**Anti-Wnt4 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Wnt4 Antibody - Images**



Anti- WNT4 antibody, ABO11427, Western blottingAll lanes: Anti WNT4 (ABO11427) at 0.5ug/mlWB: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 37KDObserved bind size: 37KD

#### **Anti-Wnt4 Antibody - Background**

Wingless-type MMIV integration site family, member4, is a secreted protein that in humans is encoded by the Wnt4 gene. By fluorescence in situ hybridization, WNT4 gene was mapped to chromosome 1p35, a location consistent with the results of radiation hybrid mapping. The WNT gene family consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and embryogenesis.