10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-Wnt7a Antibody
Catalog # ABO12765

Specification

Anti-Wnt7a Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O00755
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Protein Wnt-7a(WNT7A) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

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

Anti-Wnt7a Antibody - Additional Information

Gene ID 7476

Other Names
Protein Wnt-7a, WNT7A

Calculated MW
39005 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Secreted, extracellular space, extracellular matrix.

Tissue Specificity
Expression is restricted to placenta, kidney, testis, uterus, fetal lung, and fetal and adult brain.

Protein Name
Protein Wnt-7a

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Wnt7a (226-256aa YVLKDKYNEAVHVEPVRASRNKRPTFLKIKK), identical to the related mouse sequence.

Purification

Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, 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-Wnt7a Antibody - Protein Information

Name WNT7A

Function
Ligand for members of the frizzled family of seven transmembrane receptors that functions in the canonical Wnt/beta- catenin signaling pathway (By similarity). Plays an important role in embryonic development, including dorsal versus ventral patterning during limb development, skeleton development and urogenital tract development (PubMed:16826533). Required for central nervous system (CNS) angiogenesis and blood-brain barrier regulation (PubMed:30026314). Required for normal, sexually dimorphic development of the Mullerian ducts, and for normal fertility in both sexes (By similarity). Required for normal neural stem cell proliferation in the hippocampus dentate gyrus (By similarity). Required for normal progress through the cell cycle in neural progenitor cells, for self-renewal of neural stem cells, and for normal neuronal differentiation and maturation (By similarity). Promotes formation of synapses via its interaction with FZD5 (By similarity).

Cellular Location
Secreted, extracellular space, extracellular matrix. Secreted

Tissue Location
Expression is restricted to placenta, kidney, testis, uterus, fetal lung, and fetal and adult brain

Anti-Wnt7a 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 Cytomety
- Cell Culture

Anti-Wnt7a Antibody - Images

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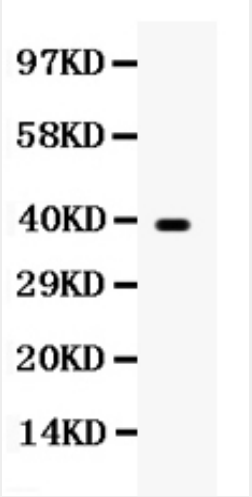
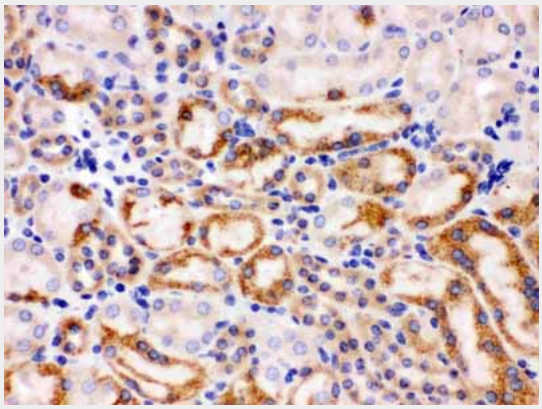
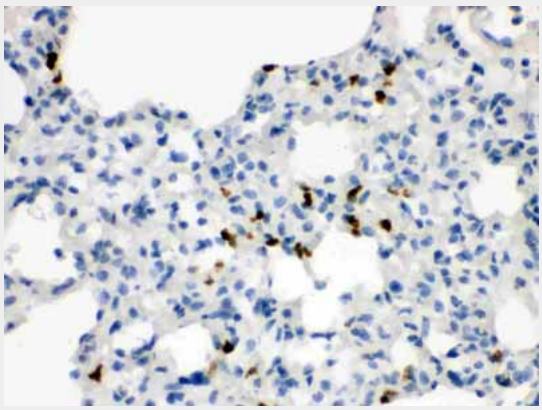


Anti- Wnt7a antibody, ABO12765, Western blottingAll lanes: Anti Wnt7a (ABO12765) at 0.5ug/mlWB: HELA Whole Cell Lysate at 40ugPredicted bind size: 39KDObserved bind size: 39KD



Anti- Wnt7a antibody, ABO12765, IHC(P)IHC(P): Mouse Kidney Tissue



Anti- Wnt7a antibody, ABO12765, IHC(P)IHC(P): Rat Lung Tissue

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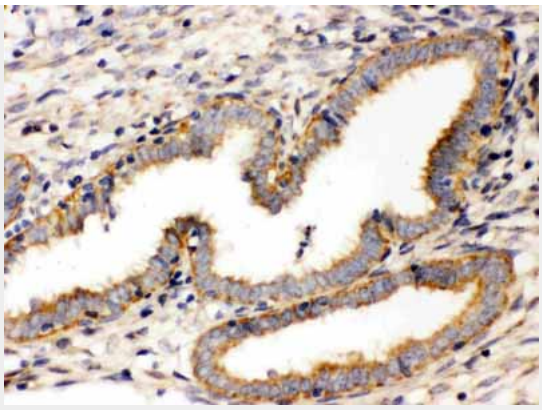

Anti- Wnt7a antibody, ABO12765, IHC(P)IHC(P): Human Endometrial Carcinoma Tissue

Anti-Wnt7a Antibody - Background

This gene is a member of the WNT gene family, which 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 patterning during embryogenesis. This gene is involved in the development of the anterior-posterior axis in the female reproductive tract, and also plays a critical role in uterine smooth muscle pattering and maintenance of adult uterine function. Mutations in this gene are associated with Fuhrmann and Al-Awadi / Raas â€“ Rothschild / Schinzel phocomelia syndromes.