

Anti-Wnt7a Antibody

Catalog # ABO12765

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.

Additional Information

Gene ID	7476
Other Names	Protein Wnt-7a, WNT7A
Calculated MW	39005
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/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.
Source	Eukaryota
Protein Name	Protein Wnt-7a
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Wnt7a (226-256aa YVLKDKYNEAVHVEPVVRASRNKRPTFLKIKK), 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 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.
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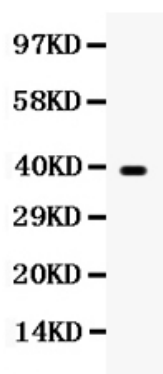
Protein Information

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

Background

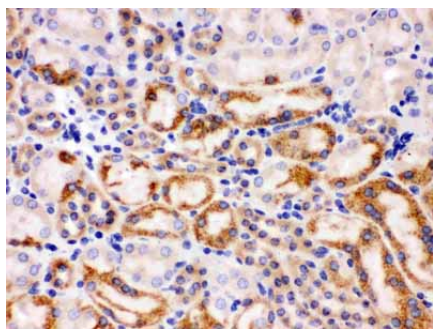
This gene is a member of the WNT gene family, which consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene 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 patterning and maintenance of adult uterine function. Mutations in this gene are associated with Fuhrmann and Al-Awadi / Raas-Rothschild / Schinzel phocomelia syndromes.

Images

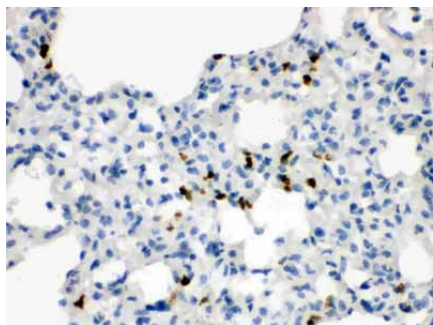


Anti- Wnt7a antibody, ABO12765, Western blotting
All lanes: Anti Wnt7a (ABO12765) at 0.5ug/ml
WB: HELA Whole Cell Lysate at 40ug
Predicted bind size: 39KD
Observed bind size: 39KD

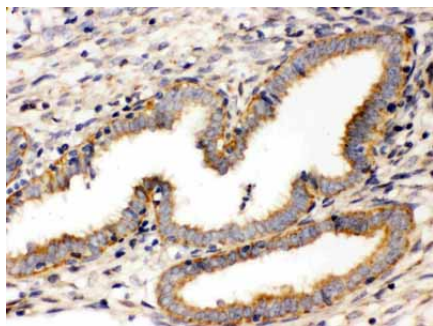
Anti- Wnt7a antibody, ABO12765, IHC(P)
IHC(P): Mouse Kidney Tissue



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



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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.