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WNT7A Rabbit pAb

Catalog # AP97068

Product Information

Application	WB, E
Primary Accession	O00755
Other Accession	O00755
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39005
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human WNT7A
Epitope Specificity	241-349/349
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the Wnt family.
SUBUNIT	Interacts with PORCN.
DISEASE	Defects in WNT7A are the cause of limb pelvis hypoplasia aplasia syndrome (LPHAS) [MIM:276820]. A syndrome of severe deficiency of the extremities due to hypo- or aplasia of one or more long bones of one or more limbs. Pelvic manifestations include hip dislocation, hypoplastic iliac bone and aplastic pubic bones. Thoracic deformity, unusual facies and genitourinary anomalies can be present.Defects in WNT7A are a cause of Fuhrmann syndrome (FUHRS) [MIM:228930]; also known as fibular aplasia or hypoplasia femoral bowing and poly- syn- and oligodactyly. Fuhrmann syndrome is a distinct limb-malformation disorder characterized also by various degrees of limb aplasia/hypoplasia and joint dysplasia.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Ligand for members of the frizzled family of seven transmembrane receptors. Probable developmental protein. Signaling by Wnt-7a allows sexually dimorphic development of the mullerian ducts.

Additional Information

Gene ID	7476
Other Names	SANTOS; Wnt-7a; px; tw; WNT7A_HUMAN; WNT7A; WNT7A_MOUSE; Wnt family member 7A; wingless-type MMTV integration site family, member 7A; proto-oncogene Wnt7a protein
Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

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

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