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WNT4 Rabbit pAb

Catalog # AP99888

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P56705
Other Accession	P56705
Reactivity	Rat, Human, Mouse
Predicted	Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39052
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human WNT4
Epitope Specificity	201-300/351
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 WNT4 are a cause of Rokitansky-Kuster-Hauser syndrome (RKH syndrome) [MIM:277000]; also called Mayer-Rokitansky-Kuster-Hauser syndrome (MRKH syndrome or MRKH anomaly). RKH syndrome is characterized by utero-vaginal atresia in otherwise phenotypically normal female with a normal 46,XX karyotype. Anomalies of the genital tract range from upper vaginal atresia to total Muellerian agenesis with urinary tract abnormalities. It has an incidence of approximately 1 in 5'000 newborn girls.Defects in WNT4 are the cause of female sex reversal with dysgenesis of kidneys, adrenals, and lungs (SERKAL) [MIM:611812]; also known as SERKAL syndrome.Defects in WNT4 are the cause of Muellerian aplasia (MULLAPL) [MIM:158330].
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. May be a signaling molecule which affects the development of discrete regions of tissues. Is likely to signal over only few cell diameters (By similarity). Overexpression may be associated with abnormal proliferation in human breast tissue.

Additional Information

Gene ID	54361
Other Names	SERKAL; WNT-4; WNT4_HUMAN; WNT4; WNT4_MOUSE; Wnt family member 4; wingless-type MMTV integration site family, member 4
	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Dilution	
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	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:15317892, PubMed:16959810, PubMed:18179883, PubMed:18182450). 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:15317892, PubMed:16959810, PubMed:18182450). Required for normal down-regulation of 3 beta-hydroxysteroid dehydrogenase in the ovary (PubMed:15317892, PubMed:16959810, PubMed:18182450). Required for normal lung development and for normal patterning of trachael cartilage rings (By similarity).
Cellular Location	Secreted, extracellular space, extracellular matrix

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