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Nephronectin Rabbit pAb

Catalog # AP98084

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q6UXI9
Other Accession	Q6UXI9
Predicted	Rat, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61907
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Nephronectin
Epitope Specificity	501-565/565
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 nephronectin family. Contains 5 EGF-like domains. Contains 1 MAM domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Nephronectin is a 565 amino acid member of the nephronectin family that contains five EGF-like domains and an Arg-Gly-Asp (RGD) cell binding motif, as well as a meprin, A5 protein and receptor protein-tyrosine phosphatase (MAM) domain. Expressed in kidney, thyroid and parathyroid glands, developing bone, tooth germ, skeletal and smooth muscle, brain and skin, POEM is involved in the development and function of bone, muscle and kidney tissue. The most established function of POEM is as a ligand to the receptor Integrin 8/∫1. Highly expressed in the nephritic cord, Integrin 8/∫1 plays a critical role in kidney morphogenesis and development. The POEM-Integrin 8∫1 complex regulates the expression of GDNF, another protein that affects kidney development, specifically by regulating the growth of the uretic bud. There are two named isoforms of POEM, both of which form homodimers or homotrimers.

Additional Information

Gene ID	255743
Other Names	EGFL6L; POEM; 1110009H02Rik; Nctn; NPNT_HUMAN; NPNT; Preosteoblast EGF-like repeat protein with MAM domain; Protein EGFL6-like; NPNT_MOUSE; Neph1; nephronectin
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,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	NPNT
Synonyms	EGFL6L, POEM
Function	Functional ligand of integrin alpha-8/beta-1 in kidney development. Regulates the expression of GDNF with integrin alpha- 8/beta-1 which is essential for kidney development. May also play a role in the development and function of various tissues, regulating cell adhesion, spreading and survival through the binding of several integrins (By similarity).
Cellular Location	Secreted, extracellular space, extracellular matrix. Note=Trapped on the cell surface or in the extracellular matrix.
Tissue Location	Expressed in kidney and lung and to a lower extent in brain, pregnant uterus, placenta, thyroid gland and blood vessels

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