



Rabbit Anti-Nephronectin antibody

SL19202R

Product Name:	Nephronectin
Chinese Name:	肾连蛋白抗体
Alias:	EGFL6L; Nephronectin; NPNT; NPNT_HUMAN; POEM; Preosteoblast EGF like repeat protein with MAM domain; Preosteoblast EGF-like repeat protein with MAM domain; Protein EGFL6 like; Protein EGFL6-like.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	59kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Nephronectin:501-565/565
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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 μ (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 $\alpha 8/\beta 1$. Highly expressed in the nephritic cord, Integrin $\alpha 8/\beta 1$ plays a critical role in kidney morphogenesis and development. The POEM-Integrin $\alpha 8/\beta 1$ 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.

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.

Subcellular Location:

Secreted > extracellular space > extracellular matrix. Trapped on the cell surface or in the extracellular matrix.

Tissue Specificity:

Expressed in kidney and lung and to a lower extent in brain, pregnant uterus, placenta, thyroid gland and blood vessels.

Similarity:

Belongs to the nephronectin family.
Contains 5 EGF-like domains.
Contains 1 MAM domain.

SWISS:

Q6UXI9

Gene ID:

255743

Database links:

[Entrez Gene: 255743](#) Human

[Entrez Gene: 114249](#) Mouse

[Omim: 610306](#) Human

[SwissProt: Q6UXI9](#) Human

[SwissProt: Q91V88](#) Mouse

[Unigene: 518921](#) Human

[Unigene: 279310](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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