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LMX1B Rabbit pAb

Catalog # AP99376

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O60663
Other Accession	O60663
Reactivity	Rat, Mouse
Predicted	Pig, Human, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44917
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LMX1b/NPS1
Epitope Specificity	111-210/379
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 homeobox DNA-binding domain. Contains 2 LIM zinc-binding domains.
DISEASE	Defects in LMX1B are the cause of nail-patella syndrome (NPS) [MIM:161200]; also known as onychoosteodysplasia. NPS is a disease that cause abnormal skeletal patterning and renal dysplasia.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of LIM-homeodomain family of proteins containing two N-terminal zinc-binding LIM domains, 1 homeodomain, and a C-terminal glutamine-rich domain. It functions as a transcription factor, and is essential for the normal development of dorsal limb structures, the glomerular basement membrane, the anterior segment of the eye, and dopaminergic and serotonergic neurons. Mutations in this gene are associated with nail-patella syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Additional Information

Gene ID	4010
Other Names	FSGS10; LMX1.2; NPS1; Icst; LMX1.1; LMX1B_HUMAN; LMX1B; LIM/homeobox protein 1.2 (LMX-1.2); LIM/homeobox protein LMX1B; LMX1B_MOUSE; LIM homeobox transcription factor 1 beta; LIM homeobox transcription factor 1, beta
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	LMX1B
Function	Transcription factor involved in the regulation of podocyte- expressed genes (PubMed:24042019, PubMed:28059119). Essential for the specification of dorsal limb fate at both the zeugopodal and autopodal levels.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.
Tissue Location	Expressed in most tissues. Highest levels in testis, thyroid, duodenum, skeletal muscle, and pancreatic islets

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