

Lmx1a Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP1426c

Product Information

Application WB, E
Primary Accession Q9JKU8
Other Accession Q8TE12

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB09408
Calculated MW 42857
Antigen Region 130-159

Additional Information

Gene ID 110648

Other Names LIM homeobox transcription factor 1-alpha, LIM/homeobox protein 11,

LMX-11, LIM/homeobox protein LMX1A, Lmx1a

Target/SpecificityThis Lmx1a antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 130-159 amino acids from the Central

region of human Lmx1a.

Dilution WB~~1:1000 E~~Use at an assay dependent concentration.

Format Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein G column, followed by dialysis

against PBS.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions Lmx1a Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name Lmx1a

Function Acts as a transcriptional activator by binding to an A/T-rich sequence, the

FLAT element, in the insulin gene promoter. Required for development of the roof plate and, in turn, for specification of dorsal cell fates in the CNS and

Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00108}.

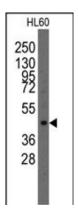
Background

Insulin is produced exclusively by the beta cells in the islets of Langerhans in the pancreas. The level and beta-cell specificity of insulin gene expression are regulated by a set of nuclear genes that bind to specific sequences within the promoter of the insulin gene (INS; MIM 176730) and interact with RNA polymerase to activate or repress transcription. LMX1 is a homeodomain protein that binds an A/T-rich sequence in the insulin promoter and stimulates transcription of insulin.

References

Mangale, V.S., Science 319 (5861), 304-309 (2008) Robertson, E.J., Development 134 (24), 4335-4345 (2007)

Images



Western blot analysis of anti-Lmx1a Pab (Cat.#AP1426c) in HL60 cell line lysates (35ug/lane). Lmx1a(arrow) was detected using the purified Pab.

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