

Lmx1a Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1426c**Specification**

Lmx1a Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O9JKU8](#)**Lmx1a Antibody (Center) Blocking Peptide - 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/Specificity

The synthetic peptide sequence used to generate the antibody [AP1426c](/product/products/AP1426c) was selected from the Center region of human Lmx1a. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Lmx1a Antibody (Center) Blocking Peptide - 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 developing vertebrae.

Cellular Location

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

Lmx1a Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Lmx1a Antibody (Center) Blocking Peptide - Images

Lmx1a Antibody (Center) Blocking Peptide - 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.

Lmx1a Antibody (Center) Blocking Peptide - References

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