

PAX6-T373 Antibody Blocking Peptide
Synthetic peptide
Catalog # BP6929d

Specification

PAX6-T373 Antibody Blocking Peptide - Product Information

Primary Accession [P26367](#)

PAX6-T373 Antibody Blocking Peptide - Additional Information

Gene ID 5080

Other Names

Paired box protein Pax-6, Aniridia type II protein, Oculorhombin, PAX6, AN2

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.

PAX6-T373 Antibody Blocking Peptide - Protein Information

Name PAX6

Synonyms AN2

Function

Transcription factor with important functions in the development of the eye, nose, central nervous system and pancreas. Required for the differentiation of pancreatic islet alpha cells (By similarity). Competes with PAX4 in binding to a common element in the glucagon, insulin and somatostatin promoters. Regulates specification of the ventral neuron subtypes by establishing the correct progenitor domains (By similarity). Acts as a transcriptional repressor of NFATC1- mediated gene expression (By similarity).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P63015}. [Isoform 5a]: Nucleus {ECO:0000250|UniProtKB:P63016}

Tissue Location

[Isoform 1]: Expressed in lymphoblasts.

PAX6-T373 Antibody Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PAX6-T373 Antibody Blocking Peptide - Images

PAX6-T373 Antibody Blocking Peptide - Background

PAX6 encodes paired box gene 6, one of many human homologs of the *Drosophila melanogaster* gene *prd*. In addition to the hallmark feature of this gene family, a conserved paired box domain, the encoded protein also contains a homeo box domain. Both domains are known to bind DNA, and function as regulators of gene transcription. This gene is expressed in the developing nervous system, and in developing eyes. Mutations in this gene are known to cause ocular disorders such as aniridia and Peter's anomaly.

PAX6-T373 Antibody Blocking Peptide - References

Zhang, Y., et al. J. Biol. Chem. 285(4):2527-2536(2010)McGeachie, M., et al. Circulation 120(24):2448-2454(2009)Schmidt-Sidor, B., et al. Folia Neuropathol 47(4):372-382(2009)Ng, T.K., et al. Mol. Vis. 15, 2239-2248 (2009)