

HKDC1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16912b**Specification**

HKDC1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [Q2TB90](#)
Other Accession [NP_079406.3](#)

HKDC1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 80201

Other Names

Putative hexokinase HKDC1, Hexokinase domain-containing protein 1, HKDC1

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.

HKDC1 Antibody (C-term) Blocking Peptide - Protein Information

Name HKDC1 ([HGNC:23302](#))

Function

Catalyzes the phosphorylation of hexose to hexose 6- phosphate, although at very low level compared to other hexokinases (PubMed:30517626). Has low glucose phosphorylating activity compared to other hexokinases (PubMed:30517626). Involved in glucose homeostasis and hepatic lipid accumulation. Required to maintain whole-body glucose homeostasis during pregnancy; however additional evidences are required to confirm this role (By similarity).

Cellular Location

Cytoplasm. Mitochondrion membrane; Peripheral membrane protein. Photoreceptor inner segment {ECO:0000250|UniProtKB:Q91W97}. Note=The mitochondrial-binding peptide (MBP) region promotes association with the mitochondrion

Tissue Location

Widely expressed (PubMed:27459389, PubMed:29401404). Highly expressed in the brush border, surface epithelium and the myenteric plexus of the small and large intestines; the acinar centrocytes and interlobular ducts of the pancreas; and the alveolar macrophages in the lungs (at

protein level) (PubMed:29401404) Present at moderate level in the thyroid follicular epithelium (at protein level) (PubMed:29401404).

HKDC1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HKDC1 Antibody (C-term) Blocking Peptide - Images

HKDC1 Antibody (C-term) Blocking Peptide - References

Neale, B.M., et al. J Am Acad Child Adolesc Psychiatry 49(9):906-920(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)