

**HKDC1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56703****Specification****HKDC1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">Q2TB90</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HKDC1
Epitope Specificity	21-120/917
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the hexokinase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**HKDC1 Polyclonal Antibody - Additional Information****Gene ID** 80201**Other Names**

Hexokinase HKDC1, 2.7.1.1, Hexokinase domain-containing protein 1, HKDC1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=23302](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=23302))  
HGNC:23302

**Dilution**

IHC-P~~N/A  
IHC-F~~N/A  
IF~~1:50~200  
ICC~~N/A

**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.

**HKDC1 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/30517626" target="\_blank">30517626</a>). Has low glucose phosphorylating activity compared to other hexokinases (PubMed:<a href="http://www.uniprot.org/citations/30517626" target="\_blank">30517626</a>). 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

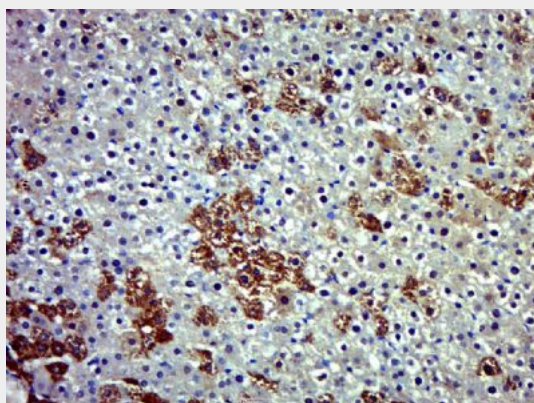
**Tissue Location**

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 Polyclonal Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HKDC1 Polyclonal Antibody - Images**

Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HKDC1) Polyclonal Antibody, Unconjugated (bs-17463R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.