

For Research Use Only

# HKDC1 Recombinant monoclonal antibody

Catalog Number: 87988-1-RR



## Basic Information

<b>Catalog Number:</b> 87988-1-RR	<b>GenBank Accession Number:</b> BC110504	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 80201	<b>CloneNo.:</b> 253509B11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q2TB90	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> hexokinase domain containing 1	
<b>Immunogen Catalog Number:</b> AG23045	<b>Calculated MW:</b> 917 aa, 103 kDa	
	<b>Observed MW:</b> 102 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : AsPC-1 cells, Caki-1 cells, A549 cells
<b>Species Specificity:</b> human	

## Background Information

HKDC1 (Hexokinase Domain Containing 1), encodes a 917-amino-acid protein with a molecular weight of approximately 102.5 kDa (102,545 Da). The protein is widely expressed, with higher expression in tissues such as the duodenum, small intestine, kidney, and colon, and primarily localizes to the cytoplasm and mitochondria. HKDC1 functions as a hexokinase that catalyzes the phosphorylation of hexose sugars, albeit at very low levels compared to other hexokinases. It plays a role in glucose metabolism and homeostasis, and is required to maintain whole-body glucose homeostasis during pregnancy. Additionally, HKDC1 is involved in coordinating mitochondrial and lysosomal homeostasis, which is critical for preventing cellular senescence.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

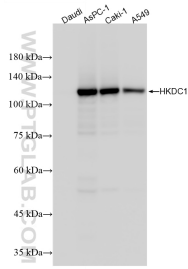
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87988-1-RR (HKDC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.