For Research Use Only

HKDC1 Recombinant monoclonal antibody, PBS Only

Catalog Number:87988-1-PBS

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Basic Information

Catalog Number:
87988-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG23045

GenBank Accession Number:
BC110504

GeneID (NCBI):
80201

UNIPROT ID:
Q2TB90

Full Name:
hexokinase domain containing 1

Calculated MW:
917 aa, 103 kDa

Observed MW:
102 kDa

Purification Method:
Protein A purification

CloneNo.:
253509B11

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
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 -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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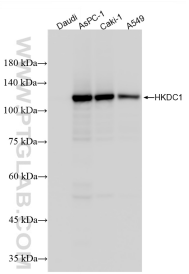
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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. This data was developed using the same antibody clone with 87988-1-PBS in a different storage buffer formulation.