



# HKDC1 mouse mAb

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-18105                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>                   | HKDC1                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>                   | Synthesized peptide derived from human HKDC1                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Specificity</b>                 | This antibody detects endogenous levels of HKDC1 at Human, Mouse                                                                                                                                                                                                                                                                                                                                                               |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                           |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>                    | EC:2.7.1.1;hexokinase domain containing 1;Hexokinase domain-containing protein 1;Hexokinase HKDC1;Putative hexokinase HKDC1;HKDC1;Putative hexokinase HKDC1 (EC 2.7.1.1) (Hexokinase domain-containing protein 1)                                                                                                                                                                                                              |
| <b>Observed Band</b>               | 102 kDa, 82-90 kDa                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Calculated Molecular Weight</b> | 917 aa, 103 kDa                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cell Pathway</b>                | Mitochondrion membrane ; Peripheral membrane protein . The mitochondrial-binding peptide (MBP) region promotes association with the mitochondrion. .                                                                                                                                                                                                                                                                           |
| <b>Tissue Specificity</b>          | 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). |
| <b>Function</b>                    | Catalyzes the phosphorylation of hexose to hexose 6-phosphate, although at very low level compared to other hexokinases . Has low glucose phosphorylating activity compared to other hexokinases . 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).

#### Background

#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images