

Rabbit anti-Human HKDC1 Polyclonal Antibody | anti-HKDC1 antibody

Anti-HKDC1 Antibody, Rabbit Polyclonal

CATALOG # AAA256728	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	----------------------------	--

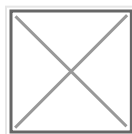
PRODUCT SYNONYMS

HKDC1; Polyclonal Antibody; Anti-HKDC1 Antibody; Rabbit Polyclonal; HKDC1 Antibody; Rabbit PAb; Antigen Affinity Purified; anti-HKDC1 antibody

PRODUCT SPECIFICATIONS

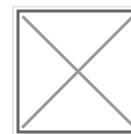
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human HKDC1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-HKDC1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human HKDC1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human HKDC1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of HKDC1 in A549 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human HKDC1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



IHC (Immunohistochemistry)

Immunochemical staining of human HKDC1 in human gallbladder with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human HKDC1 in human kidney with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-HKDC1 rabbit polyclonal antibody at 1:500 dilution. Lane A: U-251MG Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 103 kDa. Observed band size: 103 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HKDC1 antibody

HKDC1 (hexokinase domain containing 1), a novel fifth hexokinase, is associated with glucose tolerance in pregnant mothers at 24-28 weeks of gestation, through polymorphisms in regulatory variants. HKDC1 may play a specific role during pregnancy. HKDC1 expression contributes to cellular hexokinase activity. Hepatic HKDC1 contributes to whole body glucose disposal, insulin sensitivity, and aspects of nutrient balance during pregnancy. HKDC1 encodes 917 amino acids and contains 2 hexokinase domains. A homozygous missense variant (c.173C >T, p.T58 M) was found in HKDC1 in two unrelated families presenting late-onset retinal degeneration. This variant affects highly conserved amino acid residue and is very rare in several databases and absent in 4000 ethnic-matched controls. Mutant HKDC1 protein partially lost hexokinase activity.

References

Zhang L, et al. (2018) Whole-exome sequencing revealed hkdc1 as a candidate gene associated with autosomal-recessive retinitis pigmentosa. Hum Mol Genet 27 (23): 4157-4168. Pusec CM, et al. (2019) Hepatic hkdc1 expression contributes to liver metabolism. Endocrinology 160 (2): 313-330. Khan MW, et al. (2019) Hepatic hexokinase domain containing 1 (hkdc1) improves whole body glucose tolerance and insulin sensitivity in pregnant mice. Biochim Biophys Acta Mol Basis Dis 1865 (3): 678-687.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/hkdc1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/256728>