

Goat Anti-C14orf68 (aa242-254) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1171a**Specification**

Goat Anti-C14orf68 (aa242-254) Antibody - Product Information

Application	IHC, Pep-ELISA
Primary Accession	Q6Q0C1
Other Accession	NP_997000 , 283600
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	33435

Goat Anti-C14orf68 (aa242-254) Antibody - Additional Information**Gene ID** 283600**Other Names**

Solute carrier family 25 member 47, Hepatocellular carcinoma down-regulated mitochondrial carrier protein, SLC25A47, C14orf68, HDMCP

Dilution

IHC~~1:100~500

Pep-ELISA~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-C14orf68 (aa242-254) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-C14orf68 (aa242-254) Antibody - Protein Information**Name** SLC25A47 ([HGNC:20115](#))**Synonyms** C14orf68, HDMCP**Function**

Mitochondrial NAD(+) transporter that acts as a 'metabolic gate' in hepatic lipogenesis. Provides NAD(+) substrate to mitochondrial SIRT3 deacetylase and enables its NAD(+)-dependent activities in mitochondrial energy metabolism. This triggers downstream activation of PRKAA1/AMPK-alpha signaling cascade that negatively regulates sterol regulatory element-binding protein (SREBP) transcriptional activities and ATP-consuming lipogenesis to restore cellular energy balance. May transport other mitochondrial metabolites having an aromatic nucleotide and phosphate groups, such as acetyl-CoA. Does not transport amino acids. The transport mechanism remains to be elucidated.

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein. Mitochondrion outer membrane {ECO:0000250|UniProtKB:Q6IS41}; Multi-pass membrane protein

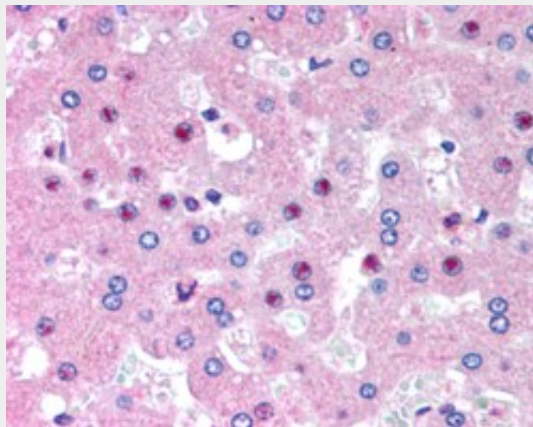
Tissue Location

Specifically expressed in liver.

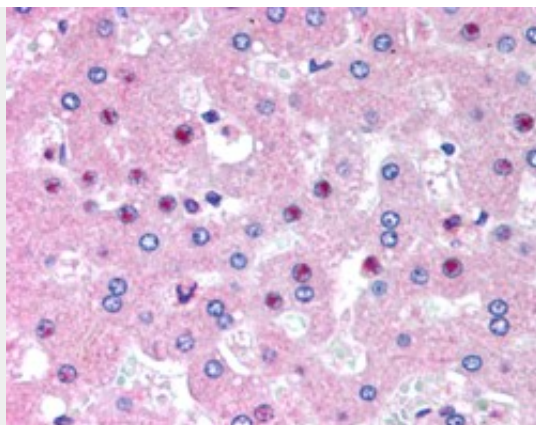
Goat Anti-C14orf68 (aa242-254) Antibody - Protocols

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](#)

Goat Anti-C14orf68 (aa242-254) Antibody - Images

AF1171a (2.5 µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07605 (2.5µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-C14orf68 (aa242-254) Antibody - References

HDMCP uncouples yeast mitochondrial respiration and alleviates steatosis in L02 and hepG2 cells by decreasing ATP and H₂O₂ levels: a novel mechanism for NAFLD. Jin X, et al. J Hepatol, 2009 May. PMID 19303656.

Cloning and identification of hepatocellular carcinoma down-regulated mitochondrial carrier protein, a novel liver-specific uncoupling protein. Tan MG, et al. J Biol Chem, 2004 Oct 22. PMID 15322095.

Expression profiling and differential screening between hepatoblastomas and the corresponding normal livers: identification of high expression of the PLK1 oncogene as a poor-prognostic indicator of hepatoblastomas. Yamada S, et al. Oncogene, 2004 Aug 5. PMID 15221005.

Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.

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