

KHDC1 Antibody
Catalog # ASC11678**Specification**

KHDC1 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q4VXA5
Other Accession	NP_085045 , 117956389
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 18 kDa

Application Notes

Observed: 26 kDa KDa
KHDC1 antibody can be used for detection of KHDC1 by Western blot at 1 - 2 µg/mL.

KHDC1 Antibody - Additional InformationGene ID **80759****Target/Specificity**

KHDC1; KHDC1 antibody is human, mouse and rat reactive. At least three isoforms of KHDC1 are known to exist; this antibody will only detect the longest isoform.

Reconstitution & Storage

KHDC1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

KHDC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

KHDC1 Antibody - Protein InformationName KHDC1 ([HGNC:21366](#))**Cellular Location**

Membrane; Multi-pass membrane protein

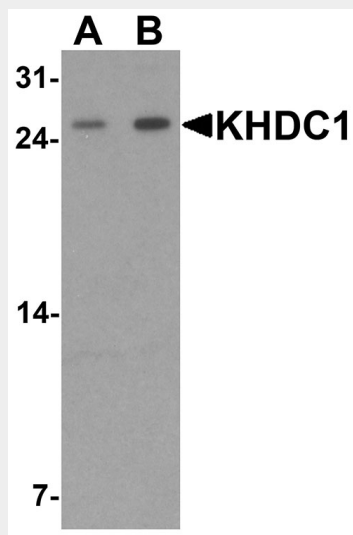
KHDC1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

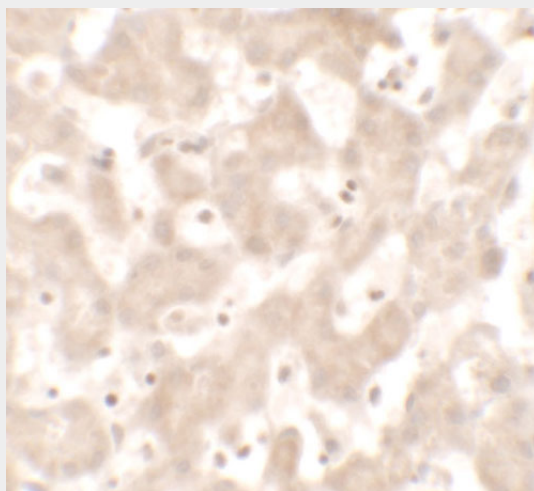
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KHDC1 Antibody - Images



Western blot analysis of KHDC1 in rat liver tissue lysate with KHDC1 antibody at (A) 0.5 and (B) 1 μ g/mL.



Immunohistochemistry of KHDC1 in human liver tissue with KHDC1 antibody at 5 μ g/mL.

KHDC1 Antibody - Background

KHDC1 Antibody: KHDC1 family members are K-homology (KH) domain-containing RNA binding proteins that are involved in various aspects of RNA metabolism, ranging from transcription to RNA splicing, transportation, translation, and stability (1). KHDC1 is highly expressed in oocytes and interacts with cytoplasmic polyadenylation element-binding protein 1 (CPEB1), a key translational regulator controlling the polyA length of mRNAs (2,3). KHDC1 functions as a global translational repressor and induces apoptosis through an ER-dependent signaling pathway and that the C-terminal putative trans-membrane motif (TMM) is critical for its activities (3,4).

KHDC1 Antibody - References

Valverde R, Edwards L, and Regan L. Structure and function of KH domains. FEBS J. 2008; 275:2712-26.

Pierre A, Gautier M, Callebaut I, et al. Atypical structure and phylogenomic evolution of the new eutherian oocyte- and embryo-expressed KHDC1/DPPA5/ECAT1/OOEP gene family. Genomics 2007; 90:583-94.

Cai C, Liu J, Wang C, et al. KHDC1A, a novel translational repressor, induces endoplasmic reticulum-dependent apoptosis. DNA Cell Biol. 2012; 31:1447-57.