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KHDC1 Antibody

Catalog # ASC11678

Product Information

Application	WB, E, IHC-P
Primary Accession	Q4VXA5
Other Accession	NP_085045, 117956389
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	27160
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	KHDC1 antibody can be used for detection of KHDC1 by Western blot at 1 - 2 g/mL.

Additional Information

Gene ID	80759
Other Names	KH homology domain-containing protein 1, KHDC1, C6orf148
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℃ for three months and -20℃, stable for up to one year.
Precautions	KHDC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KHDC1 (HGNC:21366)
Cellular Location	Membrane; Multi-pass membrane protein

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

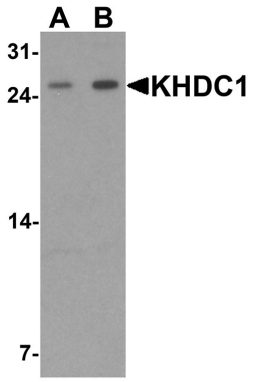
through an ER-dependent signaling pathway and that the C-terminal putative trans-membrane motif (TMM) is critical for its activities (3,4).

References

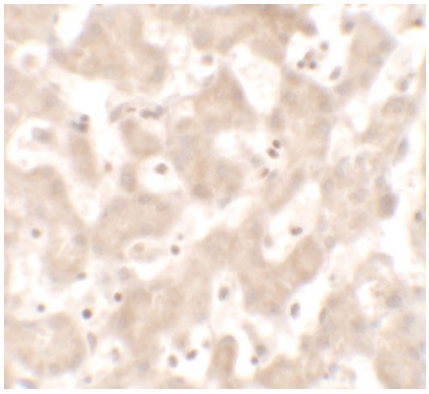
Valverde R, Edwards L, and Regan L. Structure and function of KH domains. FEBS J. 2008; 275:2712–26.
Pierre A, Gautier M, Callebaut I, et al. Atypical structure and phylogenomic evolution of the new eutherian oocyte- and embryo-expressed KHDC1/DPPA5/ECAT1/OOEP gene family. Genomics 2007; 90:583-94.

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.

Images



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



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

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