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KLF17 Antibody

Catalog # ASC11874

Product Information

Application	WB, E, IHC-P
Primary Accession	Q5JT82
Other Accession	NP_775755, 104294874
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42577
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	KLF17 antibody can be used for detection of KLF17 by Western blot at 1 - 2 g/ml. Antibody can also be used for immunohistochemistry starting at 5 g/mL.

Additional Information

Gene ID	128209
Other Names	Krueppel-like factor 17, Zinc finger protein 393, KLF17, ZNF393
Target/Specificity	KLF17; KLF17 antibody is human, mouse and rat reactive. At least two isoforms of KLF17 are known to exist; this antibody will only detect the large isoform. KLF17 antibody is predicted to not cross-react with other KLF proteins.
Reconstitution & Storage	KLF17 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	KLF17 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLF17
Synonyms	ZNF393
Function	Transcription repressor that binds to the promoter of target genes and prevents their expression. Acts as a negative regulator of epithelial-mesenchymal transition and metastasis in breast cancer. Specifically binds the 5'-CACCC-3' sequence in the promoter of ID1, a key metastasis regulator in breast cancer, and repress its expression. May be a germ cell-specific transcription factor that plays important roles in spermatid differentiation and oocyte development (By similarity).

Cellular Location Nucleus.

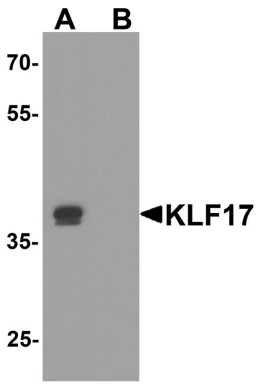
Background

KLF17, also known as ZNF393, is a member of the Sp/KLF family of transcription factors (1,2). KLF17 binds to the promoter and negatively regulates the transcription of Id-1, a key metastasis regulator in breast cancer (3). Suppression of KLF17 promotes breast cancer cell invasion and epithelial-mesenchymal transition (3). Down-regulated KLF17 expression is also associated tumor invasion and poor prognosis in hepatocellular carcinoma, suggesting that the level of KLF17 expression can serve as a prognostic indicator (4).

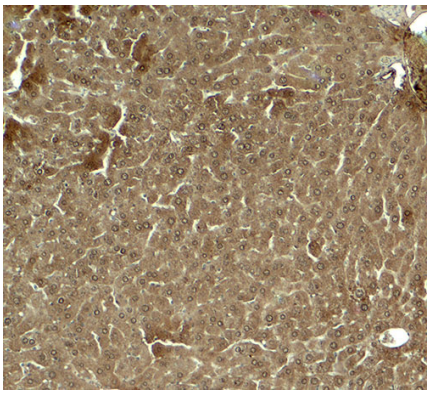
References

Yan W, Burns KH, Ma L, et al. Identification of Zfp393, a germ cell-specific gene encoding a novel zinc finger protein. Mech. Dev. 2002; 118:233-9.
van Vliet J, Crofts LA, Quinlan KG, et al. Human KLF17 is a new member of the Sp/KLF family of transcription factors. Genomics 2006; 87:474-82.
Gumireddy K, Li A, Gimotty PA, et al. KLF17 is a negative regulator of epithelial-mesenchymal transition and metastasis in breast cancer. Nat. Cell Biol. 2009; 11:1297-304.
Liu FY, Deng YL, Li Y, et al. Down-regulated KLF17 expression is associated with tumor invasion and poor prognosis in hepatocellular carcinoma. Med. Oncol. 2013; 30:425.

Images



Western blot analysis of KLF17 in rat liver tissue lysate with KLF17 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of KLF17 in mouse liver tissue with KLG17 antibody at 5 µg/ml.