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Anti-FSTL3 antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50917

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	O95633
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	polyclonal
Calculated MW	27663
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FSTL3
Epitope Specificity	101-200/263
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted and Nucleus. Although alternative initiation has been demonstrated and resulted in different localization, the major source of nuclear FSTL3 appears not to depend on translation initiation at Met-27 according to.
SIMILARITY	Contains 2 follistatin-like domains. Contains 2 Kazal-like domains. Contains 1 TB (TGF-beta binding) domain.
DISEASE	Note=A chromosomal aberration involving FSTL3 is found in a case of B-cell chronic lymphocytic leukemia. Translocation t(11;19)(q13;p13) with CCDN1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FLRG (follistatin-related gene, follistatin-like-3 or FSTL3) is a member of the follistatin-module protein family, which is composed of extracellular matrix-associated glycoproteins thought to act in a paracrine manner to bind morphogens or growth/differen-tiation factors and regulate their activity during development. The FSTL3 protein contains 2 potential N-glycosylation sites and the predicted mass of the unmodified core protein is 27 kDa. FLRG is expressed in a wide range of human and murine adult tissues and its expression seems to be tightly regulated during murine embryogenesis. Immunohistochemistry reveals the presence of FLRG in the basement membrane between the dermis and the epidermis and around blood vessels.

Additional Information

Gene ID	10272
Other Names	Follistatin-related protein 3, Follistatin-like protein 3, Follistatin-related gene protein, FSTL3, FLRG
Target/Specificity	Expressed in a wide range of tissues.

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FSTL3
Synonyms	FLRG
Function	Isoform 1 or the secreted form is a binding and antagonizing protein for members of the TGF-beta family, such as activin, BMP2 and MSTN. Inhibits activin A-, activin B-, BMP2- and MSDT-induced cellular signaling; more effective on activin A than on activin B. Involved in bone formation; inhibits osteoclast differentiation. Involved in hematopoiesis; involved in differentiation of hemopoietic progenitor cells, increases hematopoietic cell adhesion to fibronectin and seems to contribute to the adhesion of hematopoietic precursor cells to the bone marrow stroma. Isoform 2 or the nuclear form is probably involved in transcriptional regulation via interaction with MLLT10.
Cellular Location	[Isoform 1]: Secreted.
Tissue Location	Expressed in a wide range of tissues.

Background

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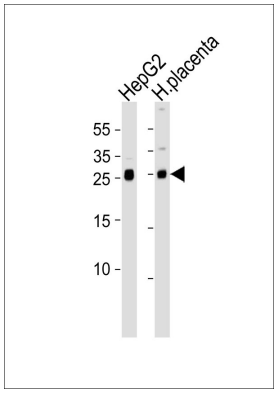
References

Hayette S.,et al.Oncogene 16:2949-2954(1998).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).

Images

Western blot analysis of lysates from HepG2 cell line and human placenta tissue(from left to right), using Anti-FSTL3 antibody (AP50917). AP50917 was diluted at



1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.