

Anti-FSTL3 antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50917**Specification**

Anti-FSTL3 antibody - Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	O95633
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	polyclonal
Calculated MW	25 KDa
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/differentiation 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.

Anti-FSTL3 antibody - 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 ~ ~ N/A
IHC-F ~ ~ N/A
IF ~ ~ 1:50 ~ 200
ICC ~ ~ N/A
E ~ ~ N/A

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.

Anti-FSTL3 antibody - 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

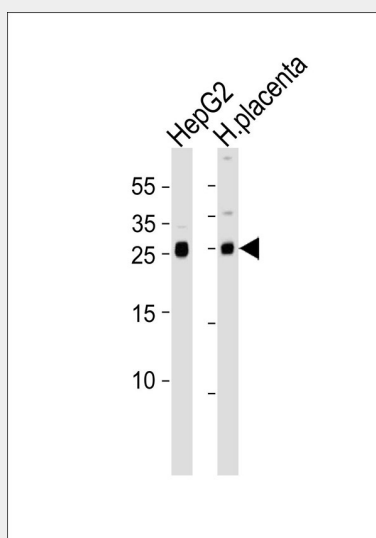
Expressed in a wide range of tissues.

Anti-FSTL3 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](#)

Anti-FSTL3 antibody - 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 20 µg per lane.

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Anti-FSTL3 antibody - 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).
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Zhang Z., et al. *Protein Sci.* 13:2819-2824 (2004).