

Rabbit anti-Human FSTL1 Monoclonal Antibody | anti-FSTL1 antibody

Recombinant Anti-FSTL1 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255250	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

FSTL1; Monoclonal Antibody; Recombinant Anti-FSTL1 Antibody; Rabbit Monoclonal; FSTL1 Antibody; Rabbit MAb; follistatin-like 1; Anti-FRP Antibody; Anti-FSL1 Antibody; Anti-MIR198 Antibody; anti-FSTL1 antibody

PRODUCT SPECIFICATIONS

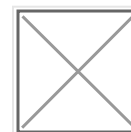
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	009
Specificity	Human FSTL1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FSTL1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human FSTL1 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human FSTL1 (rh FSTL1).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescence staining of Human FSTL1 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human FSTL1 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated goat Anti-rabbit IgG secondary antibody (green), counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human FSTL1 expression on HeLa cells. The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human FSTL1, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-FSTL1 antibody	Follistatin-related protein 1 (FSTL1) is an extracellular glycoprotein whose functional significance in physiological and pathological processes is incompletely understood. Recently, we have shown that FSTL1 acts as a muscle-derived secreted factor that is up-regulated by Akt activation and ischemic stress and that FSTL1 exerts favorable actions on the heart and vasculature. Here, we sought to identify the receptor that mediates the cellular actions of FSTL1. It contains an FS module, a follistatin-like sequence containing 10 conserved cysteine residues. FSTL1 is thought to be an autoantigen associated with rheumatoid arthritis. DIP2A functions as a novel receptor that mediates the cardiovascular protective effects of FSTL1. Experiment results have provided in vivo and in vitro evidence to demonstrate that Fstl1 modulates lung development and alveolar maturation, in part, through BMP4 signaling.
References	Rosenberg MI, et al. (2006) MyoD inhibits Fstl1 and Utrn expression by inducing transcription of miR-206. J Cell Biol. 175(1): 77-85.Ouchi N, et al. (2010) DIP2A functions as a FSTL1 receptor. J Biol Chem. 285(10): 7127-34.Geng Y, et al. (2011) Follistatin-like 1 (Fstl1) is a bone morphogenetic protein (BMP) 4 signaling antagonist in controlling mouse lung development. Proc Natl Acad Sci U S A. 108(17): 7058-63.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5901956
NCBI GeneID	11167
NCBI Accession #	NP_009016.1
NCBI GenBank Nucleotide #	NM_007085.4
UniProt Accession #	Q12841; Q549Z0; A8K523; B4DTT5; D3DN90
Molecular Weight	31,228 Da
NCBI Official Full Name	follistatin-related protein 1
NCBI Official Synonym Full Names	follistatin-like 1
NCBI Official Symbol	FSTL1
NCBI Official Synonym Symbols	FRP; FSL1; MIR198
NCBI Protein Information	follistatin-related protein 1; follistatin-like protein 1
UniProt Protein Name	Follistatin-related protein 1
UniProt Gene Name	FSTL1
UniProt Synonym Gene Names	FRP
UniProt Entry Name	FSTL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.