



20150130ML

# Anti-Human Follistatin like-protein 1 (#9K20)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M422</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of Follistatin like protein-1.

## Target Background

<b>Synonyms (Target):</b>	FST; FS
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Follistatin-like 1 (FSL1 or FSTL1), also known as FRP (follistatin-related protein), Flik (follistatin-like), and TSC36 (TGFβ1stimulated clone 36), is a secreted 45-55 kDa extracellular glycoprotein belonging to the BM40/ SPARC/Osteonectin family. The human FSTL1 cDNA encodes 308 amino acids (aa), including a 20 aa signal sequence, a cysteine-rich Follistatin (EGF and kazal-like) domain, two apparently non-functional EF hand calcium-binding motifs, and a von Willebrand Factor C homology domain. Mature human FSTL1 shares 94%, 95%, 98%, and 99% aa identity with mouse, rat, bovine, and equine FSTL1, respectively. FSTL1 was first identified as a TGF-beta-induced protein from a mouse osteoblast cell line (4). It is ubiquitously expressed in early mouse development, but is mainly mesenchymal later in development. In humans, FSTL1 is a common rheumatoid arthritis autoantigen. It is reported to be either proinflammatory due to promoting inflammatory cytokine secretion, or to prevent autoimmune arthritis by inhibiting matrix metalloproteinase (MMP) and prostaglandin expression. In muscle and heart, it appears to be protective and promotes endothelial cell functions such as revascularization after ischemia, probably due to promoting expression and activation of the protein kinase AKT1.

## Database References Target

<b>Protein RefSeq:</b>	NP_009016.1
<b>Uniprot ID:</b>	Q12841
<b>mRNA RefSeq:</b>	NM_007085.4

## Product Specifications

<b>Host</b>	Rat
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#9K20)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant human Follistatin like protein-1
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect human Follistatin like protein-1.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB

**Recommended usage:**

Western Blot: 1:500 - 1:1000

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**