

# Mouse FSTL1 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86444-1-PBS

## Basic Information

Catalog Number:	86444-1-PBS	GenBank Accession Number:	NM_008047.5	Purification Method:	Protein A purification
Source:	Rabbit	GenID (NCBI):	14314	CloneNo.:	251240E12
Isotype:	IgG	UNIPROT ID:	Q62356		
Immunogen Catalog Number:	EG2859	Full Name:	follistatin-like 1		
		Calculated MW:	35 kDa		
		Observed MW:	35-45 kDa		

## Applications

### Tested Applications:

WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA

### Species Specificity:

human, mouse, rat

## Background Information

Follistatin-like 1 (FSTL1), initially discovered as a TGF- $\beta$  1-induced gene, encodes a 308 amino acid secreted 45-55 kDa glycoprotein with a follistatin domain and two non-functional calcium-binding motifs. FSTL1 has been reported to be involved in the fate determination and maturation of epithelial cells. Ablation of the FSTL1 gene in the mouse results in several structural developmental defects and neonatal lethality due to respiratory failure, demonstrating its functional importance. FSTL1 has been reported to exhibit both pro- and anti-inflammatory actions, with a specific anti-apoptotic and protective effect in cardiac or renal cell injury. Zwijnen et al. (1994) detected several isoforms of FSTL1 with molecular masses of 40 to 48 kD, which differ from the 50- to 55-kD products detected by Tanaka et al. (1998) (OMIM). (PMID: 26386648; PMID: 23723173; PMID: 20176958).

## Storage

### Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

### Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

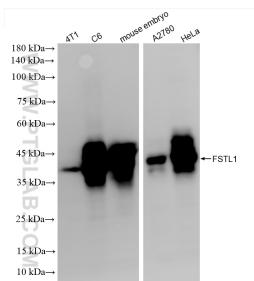
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

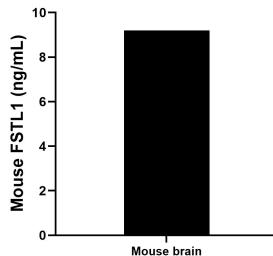
W: [ptgcn.com](http://ptgcn.com)

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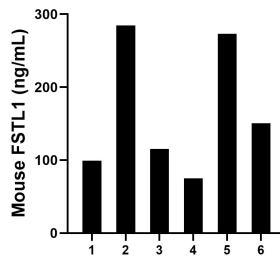
## Selected Validation Data



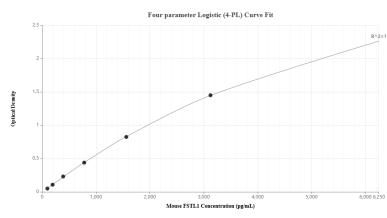
Various lysates were subjected to SDS PAGE followed by western blot with 86444-1-RR (FSTL1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86444-1-PBS in a different storage buffer formulation.



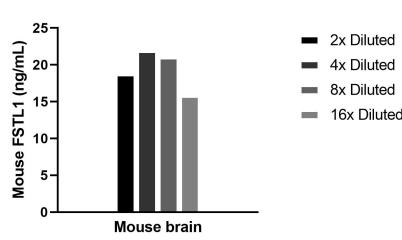
The mean FSTL1 concentration was determined to be 9.20 ng/mL in mouse brain tissue extract based on a 6.6 mg/mL extract load.



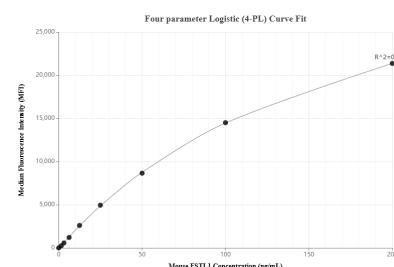
Serum of six mice was measured. The mouse FSTL1 concentration of detected samples was determined to be 64.09 ng/mL with a range of 43.91 - 83.14 ng/mL.



Sandwich ELISA standard curve of MP02461-2, Mouse FSTL1 Recombinant Matched Antibody Pair - PBS only. 86444-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg2859. 86444-3-PBS was HRP conjugated as the detection antibody. Range: 97.7-6250 pg/mL



The mean FSTL1 concentration was determined to be 19.3 ng/mL in Mouse brain tissue extract based on a 7.0 mg/mL extract load.



Cytometric bead array standard curve of MP02461-1, MOUSE FSTL1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86444-1-PBS. Detection antibody: 86444-2-PBS. Standard: Eg2859. Range: 1.562-200 ng/mL