Active Recombinant Mouse Mfap2 Protein, His-GST-tagged

Cat. No. Mfap2-7947M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Mfap2 Protein(32-178 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	32-178 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Bio-activity	Microfibrillar Associated Protein 2 (MFAP2) is an O-glycosylated protein that is secreted into the extracellular space and matrix. It plays a crucial role in connecting with biglycan and elastin in a ternary complex, supporting and maintaining the distensibility of the juxtacanalicular region of collector channels.It is reported that BGN can be combined with MFAP2 to help maintain tissue elasticity and toughness, which is particularly important for tissues such as blood vessels and skin that require a high degree of flexibility and toughness.Thus a functional ELISA assay was conducted to detect the interaction of recombinant mouse MFAP2 and recombinant rat BGN. Briefly, MFAP2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to BGN-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-MFAP2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times.

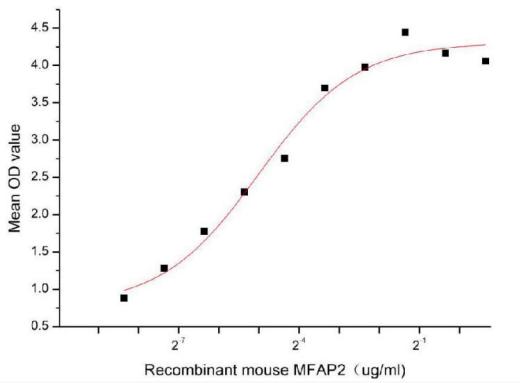
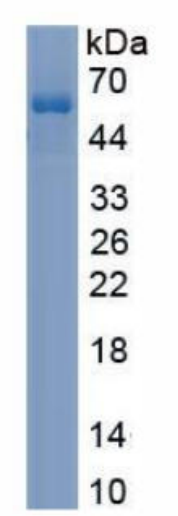
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	With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant mouse MFAP2 and recombinant rat BGN was shown, the EC50 for this effect is 0.031ug/mL.
Molecular Mass	46.7kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>90%
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
protein Refseq-Weblink	http://www.ncbi.nlm.nih.gov/protein/NP_001155271.1

GENE INFORMATION

Gene Name	Mfap2 microfibrillar-associated protein 2 [Mus musculus]
Official Symbol	Mfap2
Synonyms	MFAP2; microfibrillar-associated protein 2; MAGP-1; MFAP-2; microfibril-associated glycoprotein 1; Magp; Magp1; AI893631;
Gene ID	17150

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mRNA Refseq	NM_001161799
protein Refseq	NP_001155271
Activity	
SDS-PAGE	

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