

Microfibrillar Associated Protein 2 (MFAP2) Active Protein | MFAP2 active protein

Active Microfibrillar Associated Protein 2 (MFAP2)

CATALOG # AAA148203	HOST E Coli	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	----------------------------	---

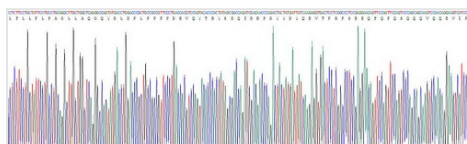
PRODUCT SYNONYMS

Microfibrillar Associated Protein 2 (MFAP2); Active Microfibrillar Associated Protein 2 (MFAP2); MAGP1; Microfibril-associated glycoprotein 1; MFAP2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	182
Applicable Applications for MFAP2 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Leu6-Val162
Isoelectric Point	5.5

IMAGES



Application Data

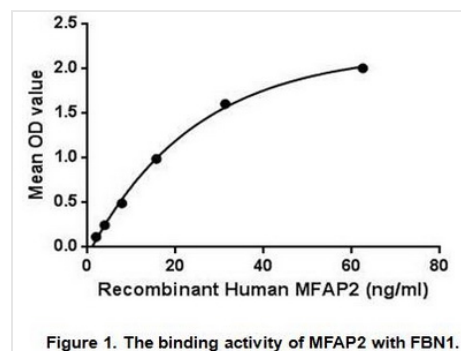
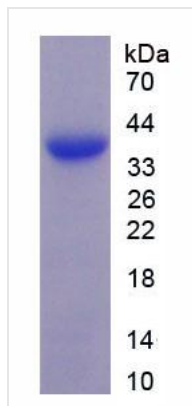


Figure 1. The binding activity of MFAP2 with FBN1.

Application Data



SDS-PAGE

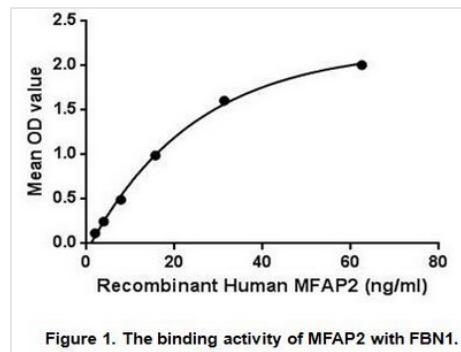


Figure 1. The binding activity of MFAP2 with FBN1.

Activity

Microfibrillar-associated protein 2 (MFAP2) is an O-glycosylated protein which excreted to the extracellular space and the extracellular matrix. MFAP2 combine biglycan and elastin to form a ternary complex. MFAP2 plays a key role in the support and distensibility of the juxtacanalicular region of these collector channels. It also can inhibit LTB-1 binding to fibrillin-1, stimulate the phosphorylation of Smad2, and thereby mediate the subsequent extracellular deposition of latent TGFbeta. Besides, Fibrillin 1 (FBN1) has been identified as an interactor of MFAP2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human MFAP2 and recombinant human FBN1. Briefly, MFAP2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to FBN1-coated microtiter wells and incubated for 2h at 37 degree 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, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of MFAP2 and FBN1 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for MFAP2 active protein	Infection immunity
--	--------------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	207028905
NCBI GeneID	4237
NCBI Accession #	NP_001128719.1
NCBI GenBank Nucleotide #	NM_001135247.1
UniProt Accession #	P55001; Q53X60; Q5JXY0
Molecular Weight	Predicted Molecular Weight: 22.0kDa Accurate Molecular Weight: 38kDa
NCBI Official Full Name	microfibrillar-associated protein 2 isoform b
NCBI Official Synonym Full Names	microfibril associated protein 2
NCBI Official Symbol	MFAP2
NCBI Official Synonym Symbols	MAGP; MAGP1; MAGP-1
NCBI Protein Information	microfibrillar-associated protein 2
UniProt Protein Name	Microfibrillar-associated protein 2
UniProt Gene Name	MFAP2
UniProt Synonym Gene Names	MAGP1; MFAP-2; MAGP; MAGP-1

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.

