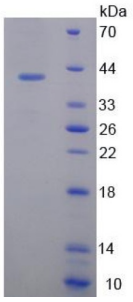
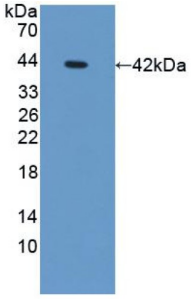
Mouse Osteocrin (OSTN) Protein

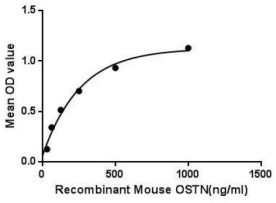
Catalogue No.:abx655982



SDS-PAGE analysis of recombinant Mouse Osteocrin Protein.



Western blot analysis of recombinant Mouse Osteocrin Protein, using Rabbit Anti-Mouse Osteocrin Protein (abx129379).



Binding activity of active recombinant Mouse Osteocrin Protein with recombinant Mouse NPR3 Protein.

Mouse Osteocrin Protein is an active recombinant Mouse protein expressed in E. coli.

Target:	Osteocrin (OSTN)
Origin:	Mouse
Expression:	Recombinant
Tested Applications:	WB, SDS-PAGE
Host:	E. coli
Conjugation:	Unconjugated
Form:	Lyophilized

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Activity:	Active
Biological Activity:	Osteocrin (OSTN) is a hormone that acts as a ligand for natriuretic peptide receptor NPR3/NPR-C and promotes bone growth and physical endurance in muscle. The protein acts as a regulator of osteoblast differentiation and bone growth by binding to natriuretic peptide receptor NPR3/NPR-C, thereby preventing binding between NPR3/NPR-C and natriuretic peptides, leading to increase cGMP production. Natriuretic Peptide Receptor 3 (NPR3) has been identified as an interactor of OSTN, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse OSTN and recombinant mouse NPR3. Briefly, OSTN was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to NPR3-coated microplate wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-OSTN polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of OSTN and NPR3 is shown in Figure 3.
Purity:	> 95%
Reconstitution:	To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH_2O. If a lower concentration is required, dilute in 20 mM Tris, 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly in 20 mM Tris, 150 mM NaCl, pH 8.0, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.
Storage:	Store at 2-8°C for up to one month. For long-term storage, store at -80°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P61364 (UniProt, ExPASy)
Gene Symbol:	OSTN
GeneID:	239790
KEGG:	mmu:239790
Molecular Weight:	Calculated MW: 41.6 kDa Observed MW (SDS-PAGE): 42 kDa
Sequence Fragment:	Phe26-Gly130
Sequence:	FSVDL ASQEFGTASL QSPPTAREEK SATELSAKLL RLDDLVSLEN DVFETKKKRS FSGFGSPLDR LSAGSVEHRG KQRKAVDHSK KRFGIPMDRI GRNRLSSSRG
Tag:	N-terminal His tag and GST tag
Buffer:	Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.05% Sarcosyl, 5% Trehalose.
Endotoxin Level:	< 1.0 EU/µg (LAL method)

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Concentration: Prior to lyophilization: 200 µg/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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