

Mouse Osterix (OSX) ELISA Kit-Sandwich

Cat. No.: EK6F676

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Osterix (OSX) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse OSX in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Osterix (OSX).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Osterix (Osx) is a crucial transcription factor in mouse skeletal development, primarily influencing osteoblast differentiation and the maintenance of bone formation and homeostasis. During embryonic development, Osx is a vital regulator of osteoblast differentiation. Deleting the Osx gene prevents the embryo from forming bone tissue, resulting in a complete absence of osteocyte and bone matrix formation, underscoring its essential role in osteoblast differentiation. Postnatally, Osx functions extend beyond osteoblast differentiation to include the regulation of bone mineralization and homeostasis. Loss of Osx leads to impaired bone mineralization, characterized by the loss of trabecular structure and a marked decrease in bone density. Moreover, Osx plays a role in regulating the maturation and function of osteocytes, helping maintain bone integrity by influencing their mineralization capacity and morphological characteristics.

Target/Biomarker	Mouse OSX
Target Synonym	Sp7 Transcription Factor; Specificity Protein 7; Zinc finger protein osterix

Gene ID [170574](#)

UniProt ID [Q8VI67](#)

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.