

# Product Datasheet

## Mouse Osteocalcin ELISA Kit (Colorimetric) NBP2-68151

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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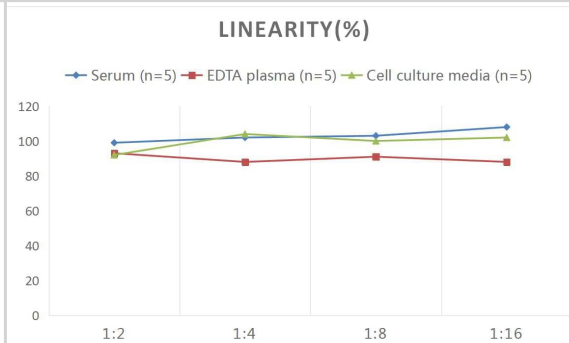


**NBP2-68151****Mouse Osteocalcin ELISA Kit (Colorimetric)**

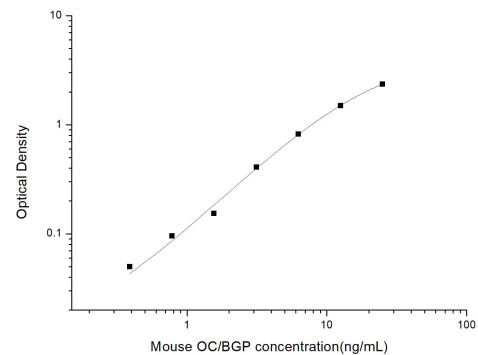
<b>Product Information</b>	
<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Storage of components varies. See protocol for specific instructions.
<b>Product Description</b>	
<b>Gene ID</b>	632
<b>Gene Symbol</b>	BGLAP
<b>Species</b>	Mouse
<b>Specificity/Sensitivity</b>	This kit recognizes Mouse OC/BGP in samples. No significant cross-reactivity or interference between Mouse OC/BGP and analogues was observed.
<b>Kit Components</b>	Micro ELISA Plate (Dismountable), Reference Standard, Concentrated Biotinylated Detection Ab (100x), Concentrated HRP Conjugate (100x), Sample Diluent, Biotinylated Detection Ab Diluent, HRP Conjugate Diluent, Concentrated Wash Buffer (25x), Substrate Reagent, Stop Solution, Plate Sealer, Product Manual
<b>Standard Curve Range</b>	0.39 - 25 ng/mL
<b>Sensitivity</b>	0.23 ng/mL
<b>Inter Assay</b>	CV% < 5.37%
<b>Intra Assay</b>	CV% < 5.57%
<b>Assay Type</b>	Sandwich-ELISA
<b>Spiking Recovery</b>	88-105%
<b>Suitable Sample Type</b>	Serum, plasma and other biological fluids
<b>Sample Volume</b>	100 uL
<b>Product Application Details</b>	
<b>Applications</b>	ELISA
<b>Recommended Dilutions</b>	ELISA

## Images

ELISA: Mouse Osteocalcin ELISA Kit (Colorimetric) [NBP2-68151] - Samples were spiked with high concentrations of Mouse Osteocalcin and diluted with Reference Standard & Sample Diluent to produce samples with values within the range of the assay.



ELISA: Mouse Osteocalcin ELISA Kit (Colorimetric) [NBP2-68151] - Standard Curve Reference



## Publications

Jaymes Fuller, Katherine Sares Lefferts, Pooja Shah, Jessica A. Cottrell, Alberto Falchetti, Jose Luis Pérez-Castrillón, Ricardo Usategui-Martín *Methodology and Characterization of a 3D Bone Organoid Model Derived from Murine Cells* International Journal of Molecular Sciences 2024-04-11 [PMID: 38673812]

Belle Yu□Hsuan Wang, Yi□Fan Chen, Allen Wei□Ting Hsiao, Wan□Jing Chen, Chien□Wei Lee, Oscar Kuang□Sheng Lee *Ginkgolide B facilitates muscle regeneration via rejuvenating osteocalcin□mediated bone□to□muscle modulation in aged mice* Journal of Cachexia, Sarcopenia and Muscle 2023-04-19 [PMID: 37076950]

Tânia Amorim, Naveen Gv Kumar, Natalie L David, William Dion, Trishya Pagadala, Nandini K Doshi, Bokai Zhu, Andrey Parkhitko, Matthew L Steinhauser, Pouneh K Fazeli *Methionine and one carbon metabolism as a regulator of bone remodeling with fasting.* JCI insight 2024-05-21 [PMID: 38780544]

Bedree JK, Kerns K, Chen T et al. *Specific host metabolite and gut microbiome alterations are associated with bone loss during spaceflight* Cell reports 2023-04-10 [PMID: 37080202] (ELISA)

Kubi J, Brah A, Cheung K et al. *A new osteogenic protein isolated from Dioscorea opposita Thunb accelerates bone defect healing through the mTOR signaling axis* Bioactive Materials 2023-09-01 [PMID: 37152710] (ELISA)

Xiong J, Liu X, Zhang Z et al. *R13, a TrkB Agonist Prodrug, Inhibits Asparagine Endopeptidase (AEP) and Increases Osteoprotegerin (OPG), Preventing Bone Loss* Nat Commun 2022-08-16 [PMID: 35973996] (ELISA)

Lu K, Shi TS, Shen Sy et al. *Defects in a liver-bone axis contribute to hepatic osteodystrophy disease progression* Cell metabolism 2022-03-01 [PMID: 35235775]

Wang Y, Herroon M, Zielske S Et al. *Use of FVB Myc-CaP cells as an immune competent, androgen receptor positive, mouse model of prostate cancer bone metastasis* Journal of Bone Oncology 2021-10-01 [PMID: 34466376]

Lu Y, Wang Y, Zhang H et al. *Solubilized Cartilage ECM Facilitates the Recruitment and Chondrogenesis of Endogenous BMSCs in Collagen Scaffolds for Enhancing Microfracture Treatment* ACS applied materials & interfaces 2021-05-20 [PMID: 34014092] (ELISA)

Li X, Wang L, Huang B et al. *Targeting actin-bundling protein L-plastin as an anabolic therapy for bone loss* Science Advances 2020-11-18 [PMID: 33208358] (ELISA)

Lu K, Shi T, Shen S et al. *Lecithin-Cholesterol Acyltransferase Induced By PPSac alpha Deficiency in Liver Regulates the Homeostasis of Liver/Bone Axis and Ameliorates Hepatic Osteodystrophy Diseases* SSRN Electronic Journal 2021-05-20 (ELISA)

Song C, Cao J, Lei Y et al. *Nuciferine prevents bone loss by disrupting multinucleated osteoclast formation and promoting type H vessel formation* FASEB J. 2020-02-10 [PMID: 32039519] (ELISA, Mouse)

More publications at <http://www.novusbio.com/NBP2-68151>



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General: novus@novusbio.com

### **Products Related to NBP2-68151**

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H0000632-P01-10ug	Recombinant Human Osteocalcin GST (N-Term) Protein
291-G1-200	IGF-I/IGF-1 [Unconjugated]
MAB1419	Osteocalcin Antibody (190125)
AF808	Osteopontin/OPN Antibody [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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