



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## BMP2 monoclonal antibody (M04), clone 3G7

Catalog # : H00000650-M04

規格 : [ 100 ug ]

[List All](#)

### Specification

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant BMP2.

**Immunogen:** BMP2 (NP\_001191, 283 a.a. ~ 396 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:** QAKHKQRKRLKSSCKRHPLYVDFSDVGWWDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAIVQTLVNSVNSKIPKACCVPTELSAISMLYLDENEKVVLKNYQDMVVEGCGCR

**Host:** Mouse

**Reactivity:** Human

**Isotype:** IgG2a Kappa

**Quality Control Testing:** Antibody Reactive Against Recombinant Protein.

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**MSDS:**  [Download](#)

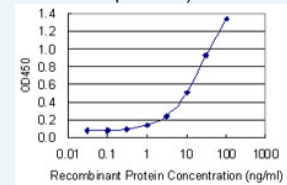
**Datasheet:**  [Download](#)

### Publication Reference

- [Biomechanical analysis of engineered bone with anti-BMP2 antibody immobilized on different scaffolds.](#)  
Ansari S, Phark JH, Duarte S Jr, Paulino da Silva M, Sharifzadeh N, Moshaverinia A, Zadeh HH. *J Biomed Mater Res B Appl Biomater.* 2015 Aug 7. [Epub ahead of print]
- [Immobilization of Murine Anti-BMP-2 Monoclonal Antibody on Various Biomaterials for Bone Tissue Engineering.](#)  
Ansari S, Freire MO, Pang EK, Abdelhamid AI, Almohaimeed M, Zadeh HH. *Biomed Res Int.* 2014;2014:940860.
- [Functionalization of scaffolds with chimeric anti-BMP-2 monoclonal antibodies for osseous regeneration.](#)  
Ansari S, Moshaverinia A, Pi SH, Han A, Abdelhamid AI, Zadeh HH. *Biomaterials.* 2013 Dec;34(38):10191-8. doi: 10.1016/j.biomaterials.2013.08.069. Epub 2013 Sep 19.
- [Co-encapsulation of anti-BMP2 monoclonal antibody and mesenchymal stem cells in alginate microspheres for bone tissue engineering.](#)  
Moshaverinia A, Ansari S, Chen C, Xu X, Akiyama K, Snead ML, Zadeh HH, Shi SB. *Biomaterials.* 2013 Sep;34(28):6572-9. doi: 10.1016/j.biomaterials.2013.05.048. Epub 2013 Jun 14.
- [The early events in the healing process of Antibody Mediated Osseous Regeneration \(AMOR\).](#)  
Freire MO, Kook JK, Kim HK, Nguyen A, Zadeh HH. *Tissue Eng Part A.* 2012 Nov 29.
- [Antibody-mediated osseous regeneration: a novel strategy for bioengineering bone by](#)

### Application Image

Sandwich ELISA (Recombinant protein)



 [enlarge](#)

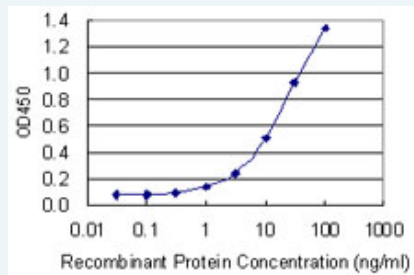
ELISA

immobilized anti-bone morphogenetic protein-2 antibodies.

Freire MO, You HK, Kook JK, Choi JH, Zadeh HH. Tissue Eng Part A. 2011 Dec;17(23-24):2911-8. Epub 2011 Aug 26.

## Applications

### Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged BMP2 is 0.3 ng/ml as a capture antibody.

 [Protocol Download](#)

## ELISA

### Gene Information

Entrez GeneID: [650](#)

GeneBank [NM\\_001200](#)

Accession#:

Protein [NP\\_001191](#)

Accession#:

Gene Name: BMP2

Gene Alias: BMP2A

Gene Description: bone morphogenetic protein 2

Omim ID: [112261](#), [235200](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** The protein encoded by this gene belongs to the transforming growth factor-beta (TGFB) superfamily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage formation. [provided by RefSeq]

Other [OTTHUMP00000030228](#)

Designations:

### Gene Pathway

[Basal cell carcinoma](#) [Cytokine-cytokine receptor interaction](#) [Hedgehog signaling pathway](#)  
[Pathways in cancer](#) [TGF-beta signaling pathway](#)

### Related Disease

[Abortion](#), [Spontaneous Asthma](#) [Calcinosis](#) [Cardiovascular Diseases](#) [Cleft Lip](#) [Cleft Palate](#)  
[Colorectal Neoplasms](#) [Diabetes Mellitus, Type 1](#) [Diabetes Mellitus, Type 2](#)  
[Diabetic Nephropathies](#) [Disease Progression](#) [Edema](#) [Genetic Predisposition to Disease](#)  
[Hemochromatosis](#) [Hyperparathyroidism](#), [Secondary Kidney Failure](#), [Chronic Narcolepsy](#)  
[Obesity](#) [Ossification of Posterior Longitudinal Ligament](#)

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