



20220329DS

Anti-Human BMP-2 (#6F72)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

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|------------------|----------------------------|
| Cat.-no.: | 101-M233A |
| Size: | 100 µg |
| Lot. No.: | According to product label |

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of Bone Morphogenetic Protein 2 precursor (pro-BMP-2).

Target Background

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|---------------------------|---|
| Synonyms (Target): | bone morphogenetic protein 2; BDA2; BMP2A; bone morphogenetic protein 4; ZYME; BMP2B; OFC11; BMP2B1; MCOPS6 |
|---------------------------|---|

Bone Morphogenetic Protein 2 (BMP2) and BMP4 are two of at least 15 structurally and functionally related BMPs, which are members of the transforming growth factor β (TGF β) superfamily, BMPs were originally identified as protein regulators of cartilage and bone formation. However, they have since been shown to be involved in embryogenesis and morphogenesis of various tissues and organs.

Database References Target

| | |
|------------------------|-----------|
| Protein RefSeq: | NP_001191 |
| Uniprot ID: | P12643 |
| mRNA RefSeq: | NM_001200 |

Product Specifications

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|------------------------------|-----------------------------|
| Host | Mouse |
| Reactivity against | Human |
| Clonality | Monoclonal Antibody |
| Clone | (#6F72) |
| Isotype | IgG1 |
| Purification | Protein G chromatography |
| Antigen | Recombinant human pro-BMP-2 |
| Formulation | lyophilized |
| Reconstitution buffer | PBS (sterile) |

Reconstitution: Centrifuge the vial prior to opening. Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect human BMP-2 and BMP-4 protein.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB, IHC, N, E (detection)

Recommended usage:

Western Blot: 1:500 - 1:1000

IHC: 1:50 – 1:100

Neutralization

ELISA: Detection AB (paired with 101-M233)

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!