

Product datasheet for **AM01364PU-N**

BMP7 Mouse Monoclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ELISA |
| Recommended Dilution: | ELISA: In a sandwich ELISA (assuming 100 µl/well), when used as a capture antibody at a concentration of 2-4 µg/ml, this BMP7 antibody will detect at least 0.1 ng/well of recombinant human BMP-7/OP-1 when used with Biotin conjugated anti-BMP-7/OP-1 antibody (cat. AP01113BT) as the detection antibody at a concentration of at least 0.5 µg/ml. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Highly pure (>98%) recombinant Human BMP-7/OP-1 |
| Specificity: | This antibody detects BMP7. |
| Formulation: | PBS without preservatives State: Azide Free State: Lyophilized (sterile filtered) purified IgG fraction |
| Reconstitution Method: | Restore in sterile water to a concentration of 1.0 mg/ml. |
| Purification: | Affinity Chromatography on Protein G |
| Conjugation: | Unconjugated |
| Storage: | The lyophilized antibody is stable at room temperature for one month or at -20°C for longer. Following reconstitution it is stable at 2-8°C for six weeks. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | bone morphogenetic protein 7 |
| Database Link: | Entrez Gene 655 Human P18075 |



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Background:

Bone Morphogenetic Protein 7 (BMP7), also known as osteogenic protein 1 (OP1), is produced from a DNA sequence encoding the human BMP2 signal peptide and human BMP2 propeptide (amino acid residues 1 to 282) fused to the human BMP7 mature subunit (amino acid residues 293 to 431). Mature human BMP7, generated after the proteolytic removal of the signal peptide and the propeptide, is a disulfide linked homodimeric protein, comprised of two 139 amino acid residue subunits. Bone Morphogenetic Proteins (BMP) are members of the TGF beta superfamily of cytokines that affect bone and cartilage formation. Similar to other TGF beta family proteins, BMPs are highly conserved across animal species.

Synonyms:

BMP-7, Bone morphogenetic protein 7, OP1, Osteogenic protein 1