

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human BMP-4 in direct ELISAs and Western blots. Does not cross-react with recombinant human BMP-2, -3, -5, -6, or -7. |
| Source | Monoclonal Mouse IgG ₁ Clone # 66108 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human BMP-4 Ser293-Arg408 Accession # P12644 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---|----------------------------------|---|
| Western Blot | 1 µg/mL | Recombinant Human BMP-4 (Catalog # 314-BP) |
| Human BMP-4 Sandwich Immunoassay | | Reagent |
| ELISA Capture | 2-8 µg/mL | Human BMP-4 Antibody (Catalog # MAB7571) |
| ELISA Detection | 0.5-2.0 µg/mL | Human BMP-4 Biotinylated Antibody (Catalog # BAM7572) |
| Standard | | Recombinant Human BMP-4 (Catalog # 314-BP) |

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.5 mg/mL in sterile Tris-buffered saline, pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% bovine serum albumin. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted. |

BACKGROUND

BMP-4 is one of at least 20 structurally and functionally related BMPs which are members of the TGF-β superfamily. Biologically active BMP-4 is a disulfide-linked homodimer of the carboxy-terminal domain. The morphogenetic effects of BMP-4 on various tissues are mediated by type I and type II BMP receptors.