

Product datasheet for **AM06396SU-N**

BMP4 Mouse Monoclonal Antibody [Clone ID: 10F4B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10F4B4
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human BMP4 expressed in E. Coli.
Specificity:	This antibody reacts to BMP4.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	64 kDa
Gene Name:	bone morphogenetic protein 4
Database Link:	Entrez Gene 652 Human P12644



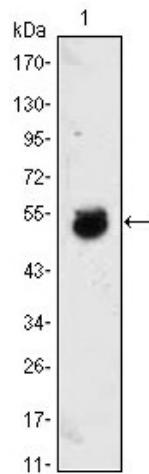
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Background:

The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. BMPs (bone morphogenetic proteins) belong to the TGF beta superfamily of structurally related signaling proteins. Members of this superfamily are widely represented throughout the animal kingdom and have been implicated in a variety of developmental processes. Proteins of the TGF beta superfamily are disulfide-linked dimers composed of two 12-15 kDa polypeptide chains. As implied by their name, BMPs initiate, promote and regulate bone development, growth, remodeling and repair. Smad1 translocation to the nucleus is observed after the addition of BMP4 (also designated BMP2B), suggesting that BMP4 may play a role in activation of the Smad pathway. BMP is secreted into the extracellular matrix.

Synonyms:

BMP2B, BMP-2B, BMP-4, DVR4, Bone morphogenetic protein 4

Product images:

Western blot analysis using BMP4 mouse mAb against BMP4-hlgGfc transfected HEK293 cell lysate.