

## Product datasheet for **CF500014**

### **BMP4 Mouse Monoclonal Antibody [Clone ID: OTI6B7]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI6B7
Applications:	IF, WB
Recommended Dilution:	WB 1:500, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant fragment expressed in E.coli corresponding to amino acids 293-408 of human BMP4
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	46.4 kDa
Gene Name:	bone morphogenetic protein 4
Database Link:	<a href="#">NP_570911</a> <a href="#">Entrez Gene 12159 Mouse</a> <a href="#">Entrez Gene 25296 Rat</a> <a href="#">Entrez Gene 652 Human</a> <a href="#">P12644</a>



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**Background:**

BMP4 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. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva.

**Synonyms:**

BMP2B; BMP2B1; MCOPS6; OFC11; ZYME

**Protein Families:**

Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway

**Protein Pathways:**

Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer, TGF-beta signaling pathway

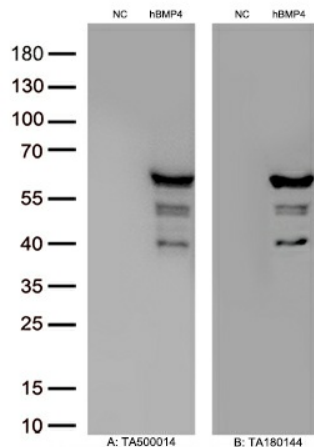
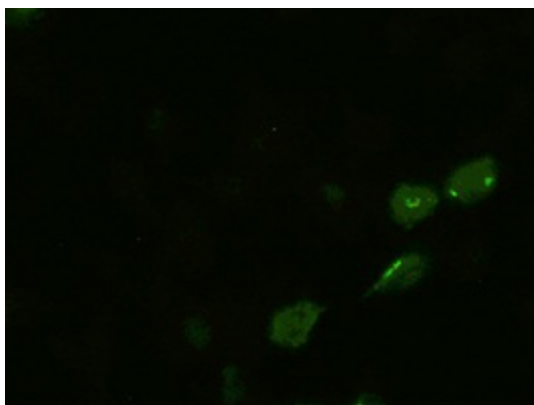
**Product images:**


Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human BMP4 plasmid ([RC219979], hBMP4) using anti-BMP4 antibody [TA500014](1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



Anti-BMP4 mouse monoclonal antibody ([TA500014]) immunofluorescent staining of HeLa cells transiently transfected by pCMV6-ENTRY BMP4 ([RC219979])