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Product datasheet for CF803611

BMP4 Mouse Monoclonal Antibody [Clone ID: OTI1D1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1D1
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 293-408 of human BMP4 (NP_001193) produced in E.coli.
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:	NP_001193 Entrez Gene 12159 MouseEntrez Gene 25296 RatEntrez Gene 652 Human P12644

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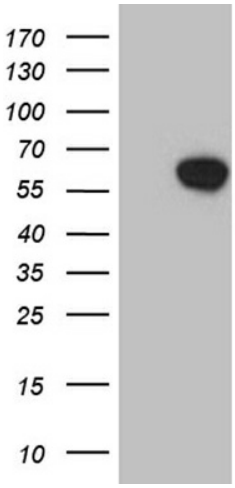
Background: This gene encodes a member of the bone morphogenetic protein (BMP) family of proteins, which is part of the transforming growth factor-beta (TGF-beta) superfamily. Members of the BMP family play an important role in bone and cartilage development. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. Mutations in this gene are associated with orofacial cleft and microphthalmia in human patients. The encoded protein may also be involved in the pathology of multiple cardiovascular diseases and human cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2015]

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:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BMP4 (Cat# [RC204473], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BMP4(Cat# [TA803611]). Positive lysates [LY429051] (100ug) and [LC429051] (20ug) can be purchased separately from OriGene.