Store at -200

BMP4 (6B7) Mouse mAb



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Applications: WB	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 47	Source/Isotype: Mouse IgG1	UniProt ID: #P12644	Entrez-Gene Id: 652	
Product Usage Information	Ар	plication			Dilution		
	We	estern Blotting			1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		BMP4 (6B7) Mouse mAb detects transfected levels of total BMP4 protein.					
Source / Purificat	t ion Mor	Monoclonal antibody is produced by immunizing animals with a BMP4 fusion protein.					
Background	cart dev the type in th syst BMI	Bone morphogenetic proteins (BMPs) were first identified as molecules that can induce ectopic bone and cartilage formation (1,2). BMPs belong to the TGF-β superfamily, playing many diverse functions during development (3). BMPs are synthesized as precursor proteins and then processed by cleavage to release the C-terminal mature BMP. BMPs initiate signaling by binding to a receptor complex containing type I and type II serine/threonine receptor kinases that then phosphorylate Smad (mainly Smad1, 5, and 8), resulting in the translocation of Smad into the nucleus. BMP was also reported to activate MAPK pathways in some systems (3,4). BMP4 plays an essential role during development. Mouse embyros deficient in BMP4 die around the time of gastrulation (5). BMP4 regulates stem cell maintenance and differentiation in various systems (6-8).					
Background Refe	1. Wang, E.A. et al. (1988) <i>Proc Natl Acad Sci USA</i> 85, 9484-8. 2. Wozney, J.M. et al. (1988) <i>Science</i> 242, 1528-34. 3. Kawabata, M. et al. (1998) <i>Cytokine Growth Factor Rev</i> 9, 49-61. 4. Nohe, A. et al. (2004) <i>Cell Signal</i> 16, 291-9. 5. Dunn, N.R. et al. (1997) <i>Dev Biol</i> 188, 235-47. 6. Nakayama, N. et al. (2000) <i>Blood</i> 95, 2275-83.						

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting

Applications Key Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

7. Solmesky, L.J. et al. (2009) Stem Cells Dev 18, 1283-92. 8. Goldman, O. et al. (2009) Stem Cells 27, 1750-9.

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