Store at -200

BMP7 Antibody



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Applications: WB, IP	Reactivity:	Sensitivity: Transfected Only	MW (kDa): 49	Source: Rabbit	UniProt ID: #P18075	Entrez-Gene Id: 655
Product Usage Information	Ap	pplication		Dilution		
	We	estern Blotting		1:1000		
	lm	munoprecipitation			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensiti	,	BMP7 Antibody detects transfected levels of total mouse BMP7 protein. It only recognizes the BMP7 precursor protein (49 kDa), not the mature secreted from (16 kDa).				
Source / Purificatio	resi	,	, ,		th a synthetic peptide col urified by protein A and p	
Background	cari dev the type in tl sys BM	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). BMP7, also known as osteogenic protein-1 (OP-1), is found to be upregulated in some cancer cells (5-7), and may play a role in cancer metastasis (7-9).				
Background Refere	2. V 3. k 4. N 5. Y 6. A 7. N	 Wang, E.A. et al. (1988) Proc Natl Acad Sci USA 85, 9484-8. Wozney, J.M. et al. (1988) Science 242, 1528-34. Kawabata, M. et al. (1998) Cytokine Growth Factor Rev 9, 49-61. Nohe, A. et al. (2004) Cell Signal 16, 291-9. Yang, S. et al. (2005) Cancer Res 65, 5769-77. Alarmo, E.L. et al. (2006) Genes Chromosomes Cancer 45, 411-9. Motoyama, K. et al. (2008) Ann Surg Oncol 15, 1530-7. Buijs, J.T. et al. (2007) Cancer Res 67, 8742-51. 				

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

9. Buijs, J.T. et al. (2007) Am J Pathol 171, 1047-57.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

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

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Limited Uses

BMP7 Antibody (#4693) Datasheet Without Images Cell Signaling Technology

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