

## Human BMP-6 Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 74219 Catalog Number: FAB507X

100 Inc. FABSU/A

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human BMP-6 in Western blots. In Western blots, no cross-reactivity with recombinant human (rh) BMP-2, rhBMP-4, rhBMP-5, or rhBMP-7 is observed.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 74219
Purification	Protein A or G purified from ascites
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human BMP-6 Arg296-His428 Accession # Q4VBA3
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data S (SDS) for additional information and handling instructions

APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			
Neutralization	Optimal dilution of this antibody should be experimentally determined.			
Western Blot	Optimal dilution of this antibody should be experimentally determined.			

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

Human BMP-6 is one of at least 15 structurally and functionally related BMPs, which are members of the transforming growth factor β (TGF-β) superfamily. BMPs were originally identified as protein regulators of cartilage and bone formation. However, they have since been shown to be involved in embryogenesis and morphogenesis of various tissues and organs. BMPs have also been shown to regulate the growth, differentiation, chemotaxis, and apoptosis of various cell types, including mesenchymal cells, epithelial cells, hematopoietic cells, and neuronal cells. Similarly to other TGF-β family proteins, BMPs are highly conserved across animal species. At the amino acid sequence level, mature human and mouse BMP-6 shares 96% amino acid sequence identity. BMP-6 is synthesized as a large precursor protein that is cleaved at the dibasic cleavage site (RXXR) to release the carboxy-terminal domain. Biologically active BMP-6 is a disulfide-linked homodimer of the carboxy-terminal 132 amino acid residues that contains the characteristic seven conserved cysteine residues involved in the formation of the cysteine knot and the single interchain disulfide bond. Cellular responses to BMP-6 have been shown to be mediated by the formation of hetero-oligomeric complexes of type I and type II serine/threonine kinase receptors. Based on amino acid sequence similarity, BMP-5, -6, -7, and -8 are in the same subgroup.

## PRODUCT SPECIFIC NOTICES

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