NeutraKine® BMP-7 Monoclonal antibody

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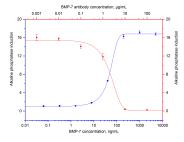
Catalog Number:69011-1-lg

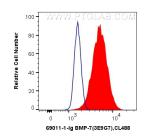
Basic Information	Catalog Number: 69011-1-lg Size: Source: Mouse Isotype: IgG1 Immunogen Catalog Number: HZ-1229	GenBank Accession Number: GeneID (NCBI): 655 Full Name: bone morphogenetic protein 7	Purification Method: Protein G purification CloneNo.: 3E9G7
Applications	Tested Applications: FC (Intra), Neutralization, ELISA Species Specificity: Human, mouse		
Background Information	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. BMP7, also known as osteogenic protein-1 or OP-1, plays a key role in the transformation of mesenchymal cells into bone and cartilage. BMP7 may be involved in bone homeostasis (PMID: 15621726). It is expressed in the brain, kidneys and bladder. BMP7 is also present in cancers, including breast, prostate, and colon cancers, in which it is implicated in regulating cancer cell proliferation (PMID: 16419056, PMID: 15531927). Overexpression of BMP7 mRNA in colorectal cancer patients was significantly associated with poor prognosis and low overall survival (PMID: 18259822). Recent studies suggest that high-expression level of BMP7 serves as a biomarker for poor prognosis for HCC (PMID: 23179403).		
Storage	reconstitution we recommend that th	nould be avoided with reconstituted pr	ort term or at(-20°C) to (-80°C) for long

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Recombinant human BMP-7 (Cat.NO. HZ-1229) induces alkaline phosphatase production in the ATDC-5 cell line (using pNPP as chromogenic substrate for detection) in a dose dependent manner (blue curve, bottom X-left Y). The activity of human BMP-7 (200 ng/mL HZ-1229) is neutralized by mouse anti-human BMP-7 antibody 69011-1-lg at serial dose (red curve, refer to top X-right Y). The ND50 is typically 1-2 μ g/mL

1X10^6 HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human NeutraKine® BMP-7 (69011-1-Ig, Clone:3E9G7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).