

À des fins de recherche uniquement

Anticorps Monoclonal anti-NeutraKine® BMP-7



Numéro de catalogue: 69011-1-Ig

Informations de base

Numéro de catalogue:

69011-1-Ig

Taille:

100ug

Hôte:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1229

Numéro d'acquisition GenBank:

Identification du gène (NCBI):

655

Nom complet:

bone morphogenetic protein 7

Méthode de purification:

Purification par protéine G

CloneNo.:

3E9G7

Applications

Applications testées:

FC (Intra), Neutralization, ELISA

Spécificité de l'espèce:

Humain

Informations générales

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).

This antibody can be used to neutralize the bioactivity of BMP-7.

Stockage

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Les anticorps lyophilisés sont stables pendant 1 an à compter de la date de réception s'ils sont stockés à une température comprise entre -20 °C et -80 °C. Après reconstitution, nous recommandons que la solution soit stockée à (4 °C) pour une courte durée ou à une température comprise entre (-20 °C) et (-80 °C) pour une longue durée. Il convient d'éviter les cycles répétés de congélation-décongélation avec les produits reconstitués.

Tampon de stockage:

PBS stérile.

L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

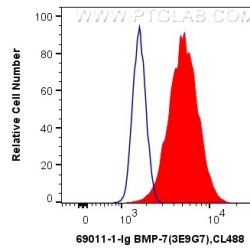
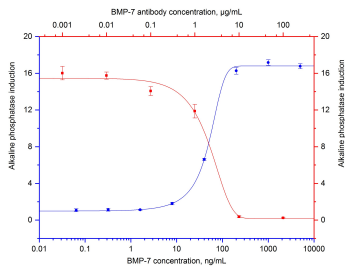
For technical support and original validation data for this product please contact:

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E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Données de validation sélectionnées



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-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 1-2 µg/mL.

1X10⁶ HEK-293 cells were intracellularly stained with 0.4 µg 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 µg Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).