For Research Use Only

NeutraKine® BMP-4 Monoclonal antibody

Catalog Number:69015-1-Ig

Basic Information

Catalog Number:
69015-1-Ig

Size:

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
HZ-1045

GenBank Accession Number:

GeneID (NCBI):
652

Full Name:
bone morphogenetic protein 4

Purification Method:
Protein G purification

CloneNo.:
3B5A7

Applications

Tested Applications:
Neutralization, ELISA

Species Specificity:
Human

Background Information

BMP4, also named as BMP2B and DVR4, belongs to the TGF-beta family. BMPs have been shown to promote astroglial differentiation both in vitro and in vivo. BMP4 have been shown to be components of serum and are thought to be responsible for this differentiation. BMP4 are expressed mainly in neurons, with minimal expression detected in astrocytes and oligodendrocytes.

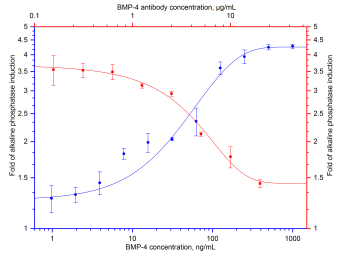
This antibody can be used to neutralize the bioactivity of BMP-4.

Storage

Storage:
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.
Storage Buffer:
Sterile PBS.
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



Recombinant human BMP-4 (Cat.NO. HZ-1045) 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-4 (200 ng/mL HZ-1045) is neutralized by mouse anti-human BMP-4 antibody 69015-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 3-10 μg/mL.