

For Research Use Only

# NeutraKine® BMP-4 Monoclonal antibody, PBS Only (Detector)

Catalog Number: 69015-1-PBS



## Basic Information

Catalog Number:

69015-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1045

GenBank Accession Number:

GeneID (NCBI):

652

Full Name:

bone morphogenetic protein 4

Purification Method:

Protein A purification

CloneNo.:

3B5A7

## Applications

Tested Applications:

Neutralization, Cytometric bead array, Indirect ELISA, Sample test

Species Specificity:

human

## Product Information

69015-1-PBS targets NeutraKine® BMP-4 as part of a matched antibody pair:

MP51307-1: 60897-1-PBS capture and 69015-1-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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:

Store at -80°C.

Storage Buffer:

PBS Only

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

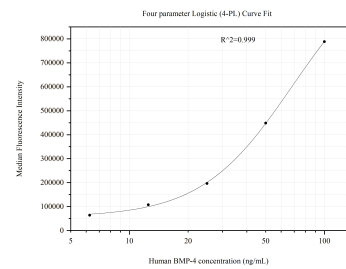
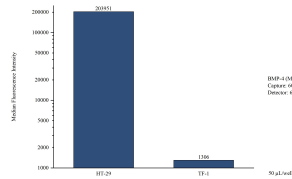
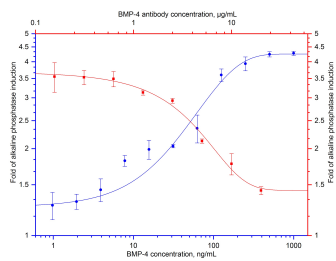
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Selected Validation Data



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. This data was developed using the same



Cytometric bead array of cell line supernatant using MP51307-1, BMP-4 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 60897-1-PBS. Detection antibody: 69015-1-PBS. Supernatant (50µL/well) from the following cell lines were assayed: HT-29, TF-1.

Cytometric bead array standard curve of MP51307-1, BMP-4 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 60897-1-PBS. Detection antibody: 69015-1-PBS. Standard:HZ-1045. Range: 6.25-100 ng/mL.