PRODUCT INFORMATION

Catalog number ABM0615

Clone No. 4E7

Product type Monoclonal Antibody

UnitProt No. P18075

NCBI Accession No. NP_001710

Alternative Names BMP 7, Bone morphogenetic protein 7, Eptotermin alfa, OP-1, Osteogenic protein 1

PRODUCT SPECIFICATION

Antibody Host Mouse

Reacts With Human

Concentration 1mg/ml (determined by BCA assay)

Formulation Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen Recombinant human BMP7 (293-431aa) purified from E. coli

lsotype

lgG1 kappa

Purification Note By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

For research use only. This product is not intended or approved for human, diagnostics or veterinary use. Website: www.nkmaxbio.com email: supportbio@nkmax.com



NKMAXBio we support you, we believe in your research Human BMP-7 antibody Catalog Number: ABM0615

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BMP-7 (bone morphogenetic protein-7), also known as OP-1 (osteogenic protein-1), is a member of the transforming growth factorbeta (TGFbeta) superfamily. BMP-7 plays an essential role during ontogeny of the mammalian eye and kidney, also, is expressed in heart, lung, small intestine, limb bud and teeth. In addition, noggin, one of the soluble BMP antagonists, regulated the action of BMPs on mesenchymal precursor cells, partially through a feedback type of inhibition.

General References

Gregory KE., et al. (2005) J. Biol, Chem. 280, 27970-27980. Sampath Tk., et al. (1990) J. Biol. Chem. 265:13198-13205. Godin RE., et al. (1998) Development. 125:3473-3482. Groppe J., et al. (2002) Nature. 420:636-642.

DATA

Western blot analysis (WB)



The extracts of mouse kidney (MK) and rat heart (RH) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman BMP7 antibody (1:1,000). Protein was visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of BMP7 in HeLa cells. The cell was stained with ABM0615 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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