

Monoclonal anti-human BMP2 antibody (clone AT15B3)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0281

Immunogen: Recombinant human BMP2 (283-396aa) purified from *E. coli*

NCBI Accession No.: NP_001191

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human BMP2 mAb, clone AT15B3, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human BMP2 protein.

Description: BMP-2(Bone morphogenetic protein 2) is multi-functional growth factors that belong to the transforming growth factor beta (TGF beta) superfamily. It plays an important role in embryonic dorsal-ventral patterning, organogenesis, limb bud formation, and bone formation and regeneration. BMP-2 also promotes the maintenance and repair of colonic epithelium, suppresses neuronal dopamine synthesis and release, induces apoptosis in medulloblastoma cells, and is required for cardiac contractility.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



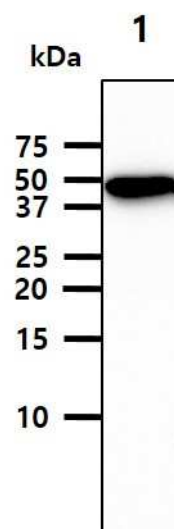
Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

Product information

Western blot analysis

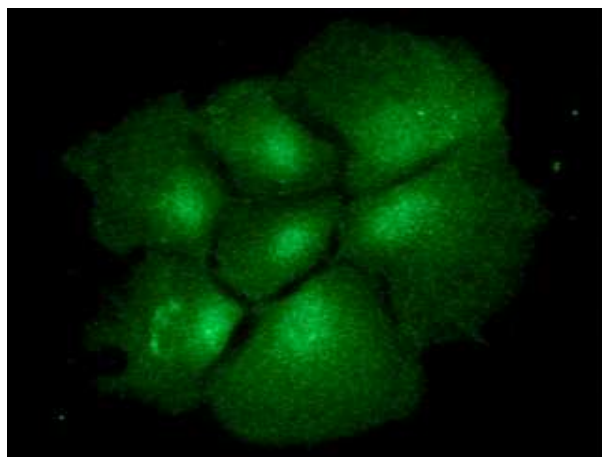
The cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BMP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HepG2 cell lysate



ICC/IF analysis

ICC/IF analysis of BMP2 in Hep3B cells line, stained with monoclonal anti-human BMP2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Chen D., *et al.* (2004) *Growth factors*. **22(4)**: 233-41.
Schliephake H., *et al.* (2005) *Clin Oral Implants Res*. **17(6)**: 666-72.

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