

Anti-BMP6 Rabbit Monoclonal Antibody

Catalog Number: M06924-1

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Overview

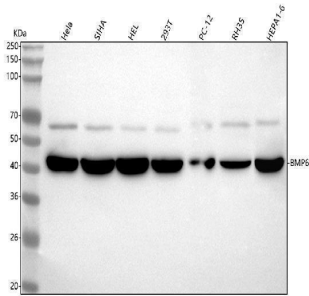
Product Name	Anti-BMP6 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-BMP6 Rabbit Monoclonal Antibody catalog # M06924-1. Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Monoclonal 21B45
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P22004

Technical Details

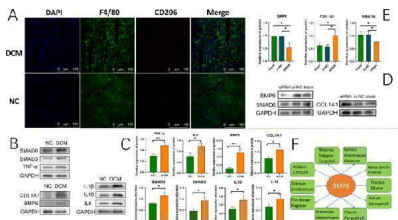
Immunogen	A synthesized peptide derived from human BMP6
Isotype	IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

	IHC 1:50-200 ICC/IF 1:50-200 FC 1:50
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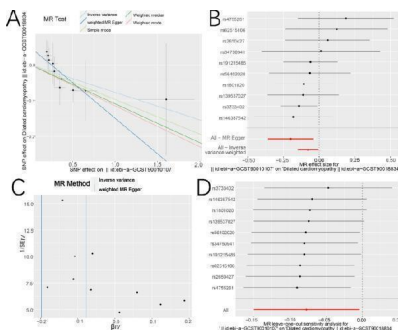
Anti-BMP6 Rabbit Monoclonal Antibody (M06924-1) Images



Western blot analysis of BMP6 using anti-BMP6 antibody (M06924-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human SiHa whole cell lysates, Lane 3: human HEL whole cell lysates, Lane 4: human 293T whole cell lysates, Lane 5: rat PC-12 whole cell lysates, Lane 6: rat RH35 whole cell lysates, Lane 7: mouse HEPA1-6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-BMP6 antigen affinity purified monoclonal antibody (Catalog # M06924-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for BMP6 at approximately 42 kDa. The expected band size for BMP6 is at 57 kDa.

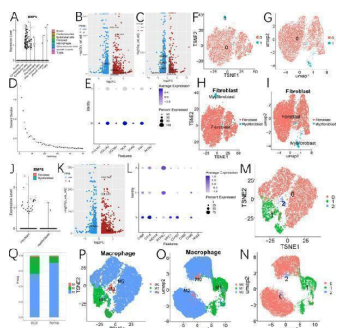


Immunofluorescence staining and cardiac tissue protein assay and BMP6 knockdown. A Immunofluorescence staining of markers specific to macrophages and type 2 macrophages. B and C Western blot was used to detect the changes in protein levels in the cardiac tissues between DCM and NC (n = 3). D and E The knockdown of BMP6 and the expression levels of SMAD6 and COL1A1 (n = 3). The siRNA group represents the knockdown group, si-NC represents the empty vector group, and blank represents the control group. The significance of * P in the above graph: * P < 0.05; ** P < 0.01. F Potential interventional herbs based on BMP6 inverse prediction Index in PubMed under a CC BY license. PMID: 39825396



Mendelian randomization analysis between BMP6 and DCM. A Scatter trend plot of effective SNPs. B The black line represents the nature of each SNP, and the red lines represent the combined nature of the SNPs analyzed by the IVW and MR Egger methods, respectively. C SNPs distribution map. D Leave-one-out analysis. The red line shows the results of the combined analysis Index in PubMed under a CC BY license. PMID: 39825396

BMP6 expression in different cellular subpopulations. A Differential expression of BMP6 in various cell types of the heart. B Differential gene expression in fibroblasts between



DCM and NH. C Differential gene expression in endothelial cells between DCM and NH. D Elbow diagram obtained using the harmony method and we selected 0-15 as the number of dimensions. E Specific markers and expression levels in fibroblasts and myofibroblasts. F - I subdividing and annotating fibroblast subpopulations by TSNE and Umap methods. J BMP6 expression between conventional fibroblasts and myofibroblasts. K differential expression of BMP6 in fibroblasts between DCM and NH. L Specific markers and expression levels of macrophage subpopulations. M - P Subdividing and annotating macrophage subpopulations by TSNE and Umap methods. Q Differences in the percentage of macrophage subpopulations abundance between DCM and NH Index in PubMed under a CC BY license. PMID: 39825396

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For Research Use Only. Not for use in diagnostic procedures.