

Anti-BMP-4 Antibody (80817)

Product Details

Ig Type:	Mouse IgM
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	80817
Purification:	Protein A

Applications

Verified Activity:	<p>1. Immunofluorescence staining of Human BMP4 in Hela cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human BMP4 monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.</p> <p>2. Flow cytometric analysis of Human BMP4 on HeLa cells. Cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human BMP4, then a FITC-conjugated second step antibody. The histogram were derived from gated events with the forward and side light-scatter characteristics of intact cells.</p>
Application:	FCM, ICC/IF
Recommended	ICC-IF: 1:20-1:100; FCM: 1:25-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human BMP-4 protein
Antigen Species:	Human
Synonyms:	bone morphogenetic protein 4;ZYME;MCOPS6;BMP2B;BMP2B1;OFC11
Biology Area:	Early Mesodermal Lineage Markers, Cardiac Stem Cell Markers

Research Background

BMP4 (bone morphogenetic protein-4)-directed differentiation of human embryonic stem cells (ESCd). Autophagy is a conserved catabolic process with complicated roles in tumor development. Bone morphogenetic protein 4 (BMP4), a member of the transforming growth factor (TGF- β) family of regulatory proteins, plays a crucial role in human malignancies. BMP4 treatment promoted HCC cells proliferation and induced autophagy. Mechanistic study revealed that the induction of autophagy by BMP4 was mediated through activating the JNK1/Bcl2 pathway. And the JNK1 inhibitor and knockdown of JNK1 could attenuate autophagy induced by BMP4 and eliminated BMP4-promoted HCC cells growth. BMP4 promoted HCC proliferation by autophagy activation through JNK1/Bcl-2 signaling.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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