

Anti-BMP-2 Antibody (1M274)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human, Mouse, Rat, Rhesus, Canine
Conjugation:	Unconjugated
Clone:	1M274
Purification:	Protein A

Applications

Verified Activity:	<p>1. Immunofluorescence staining of Human BMP2 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 BMP2 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 BMP2 expression on Hela cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human BMP2, then a FITC-conjugated second step antibody. The fluorescence histograms 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 / Mouse / Rat / Rhesus / Canine BMP-2 protein (TMPY-01136)
Antigen Species:	Human, Mouse, Rat, Rhesus, Canine
Synonyms:	bone morphogenetic protein 2
Biology Area:	Early Mesodermal Lineage Markers

Research Background

BMP-2 protein, like other bone morphogenetic proteins, plays an important role in the development of bone and cartilage. BMP-2 protein is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction. BMP-2 and BMP-7 are osteogenic BMPs that have been demonstrated to potently induce osteoblast differentiation in a variety of cell types. BMP-2, BMP-4 and BMP-7 are known to be of major importance in bone formation and repair. In cancerous tissues BMP-2 protein may play an important role in the progression of glioma.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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