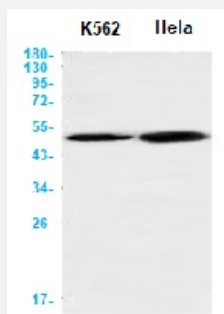


RecomAb™

BMP4 recombinant monoclonal antibody, clone R01-2G4

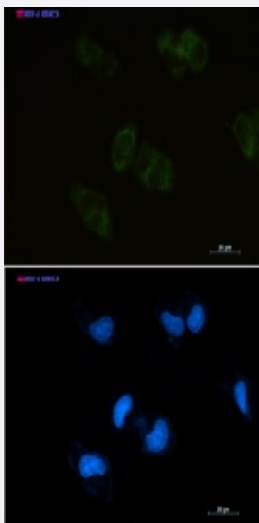
Catalog # RAB01553 Size 100 uL

Applications



Western Blot

Western blot analysis of BMP4 in K562, HeLa lysates using human BMP4 recombinant monoclonal antibody, clone R01-2G4 (Cat # RAB01553).



Immunocytochemistry

Immunocytochemistry analysis of BMP4 (green) in HEPG2 using human BMP4 recombinant monoclonal antibody, clone R01-2G4 (Cat # RAB01553), and DAPI(blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human BMP4.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human BMP4
Theoretical MW (kDa)	Calculated MW: 47 kD

Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-1:200) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of BMP4 in K562, Hela lysates using human BMP4 recombinant monoclonal antibody, clone R01-2G4 (Cat # RAB01553).

- Immunocytochemistry

Immunocytochemistry analysis of BMP4 (green) in HEPG2 using human BMP4 recombinant monoclonal antibody, clone R01-2G4 (Cat # RAB01553), and DAPI(blue).

- Immunoprecipitation

Gene Info — BMP4

Entrez GeneID	652
Protein Accession#	P12644
Gene Name	BMP4
Gene Alias	BMP2B, BMP2B1, MCOPS6, ZYME
Gene Description	bone morphogenetic protein 4

Omim ID [112262](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein. [provided by RefSeq]

Other Designations bone morphogenetic protein 2B

Pathway

- [Basal cell carcinoma](#)
- [Cytokine-cytokine receptor interaction](#)
- [Hedgehog signaling pathway](#)
- [Pathways in cancer](#)
- [TGF-beta signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Anemia](#)
- [Bone Diseases](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coloboma](#)
- [Colorectal Neoplasms](#)

- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Gaucher disease](#)
- [Genetic Predisposition to Disease](#)
- [Hemochromatosis](#)
- [Hypospadias](#)
- [Kidney Failure](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Metabolic Syndrome X](#)
- [Microphthalmos](#)
- [Neoplasms](#)
- [Neural Tube Defects](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prenatal Exposure Delayed Effects](#)
- [Puberty](#)
- [Skin Neoplasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)