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Datasheet for ABIN7265898 anti-BMP4 antibody

3 Images



Overview

Quantity:	100 µL
Target:	BMP4
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This BMP4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	BMP4 Rabbit mAb
Immunogen:	A synthesized peptide derived from human BMP4
Isotype:	lgG
Cross-Reactivity:	Human
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

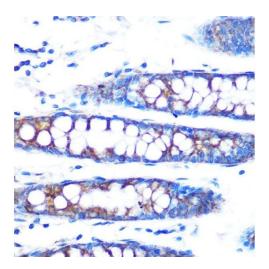
Target:	BMP4
Alternative Name:	BMP4 (BMP4 Products)
Background:	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta)

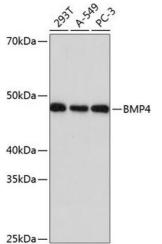
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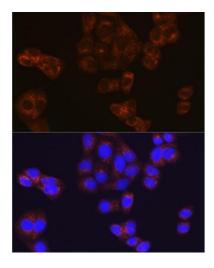
	superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to
	recruitment and activation of SMAD family transcription factors that regulate gene expression.
	The encoded preproprotein is proteolytically processed to generate each subunit of the
	disulfide-linked homodimer. This protein regulates heart development and adipogenesis.
	Mutations in this gene are associated with orofacial cleft and microphthalmia in human
	patients. The encoded protein may also be involved in the pathology of multiple cardiovascular
	diseases and human cancers. [provided by RefSeq, Jul 2016],BMP2B, BMP2B1, MCOPS6,
	OFC11, ZYME, Angiogenesis, Cancer, Cardiovascular, Cell Biology & Developmental
	Biology,Cytokines,ESC Pluripotency and Differentiation,Growth factors,Immunology &
	Inflammation,NF-kB Signaling Pathway,Signal Transduction,Stem Cells,TGF-b-Smad Signaling
	Pathway,TGF-b-Smad Signaling Pathway_Ligands,Wnt/β-Catenin Signaling Pathway,BMP4
Molecular Weight:	47kDa
Gene ID:	652
UniProt:	P12644
Pathways:	Steroid Hormone Mediated Signaling Pathway, Regulation of Muscle Cell Differentiation, Tube
	Formation, Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.







Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon using BMP4 Rabbit mAb (ABIN7265898) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using BMP4 Rabbit mAb (ABIN7265898) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 10s.

Immunofluorescence

Image 3. Immunofluorescence analysis of HeLa cells using BMP4 Rabbit mAb (ABIN7265898) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

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