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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

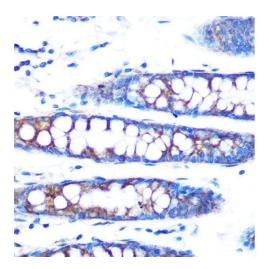
| Target: | BMP4 |
|-------------------|---|
| Alternative Name: | BMP4 (BMP4 Products) |
| Background: | This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) |

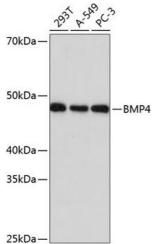
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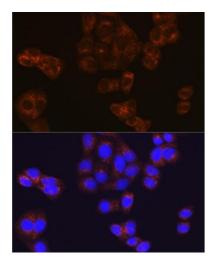
| | superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to |
|-------------------|--|
| | recruitment and activation of SMAD family transcription factors that regulate gene expression. |
| | The encoded preproprotein is proteolytically processed to generate each subunit 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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