

BMP-4 Rabbit pAb

CatalogNo: YT7841

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 45kD (Calculated)

Isotype

- IgG

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

ELISA 1:5000-20000

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from human BMP-4 AA range: 261-310

Specificity

This antibody detects endogenous levels of Human BMP-4

Target Information

Gene name

BMP4 BMP2B DVR4

Protein Name	Bone morphogenetic protein 4		
	Organism	Gene ID	UniProt ID
	Human	652;	P12644;
	Mouse	12159;	P21275;
	Rat		Q06826;

Cellular Localization Secreted , extracellular space , extracellular matrix.

Tissue specificity Expressed in the lung and lower levels seen in the kidney. Present also in normal and neoplastic prostate tissues , and prostate cancer cell lines.

Function

skeletal system development , ossification , angiogenesis , ovarian follicle development , blood vessel development , osteoblast differentiation , eye development , urogenital system development , metanephros development , ureteric bud development , branching involved in ureteric bud morphogenesis , formation of primary germ layer , mesoderm formation , cell fate specification , cell fate determination , mesodermal cell fate commitment , induction of an organ , morphogenesis of a branching structure , kidney development , regulation of protein amino acid phosphorylation , positive regulation of protein amino acid phosphorylation , vasculature development , morphogenesis of an epithelium , lens development in camera-type eye , lens morphogenesis in camera-type eye , immune system development , regionalization , reproductive developmental process , regulation of transcription , DNA-dependent , regulation of transcription from RNA polymerase II promoter , cell surface receptor linked signal transduction , enzyme linked receptor protein signaling pathway , transmembrane receptor protein serine/threonine kinase signaling pathway , cell-cell signaling , gamete generation , germ cell development , gastrulation , pattern specification process , sensory organ development , mesoderm development , mesodermal cell fate determination , heart development , sex differentiation , response to nutrient , cell proliferation , positive regulation of cell proliferation , negative regulation of cell proliferation , gonad development , female gonad development , response to mechanical stimulus , response to abiotic stimulus , response to endogenous stimulus , response to hormone stimulus , post-embryonic development , embryonic development ending in birth or egg hatching , positive regulation of biosynthetic process , dorsal/ventral pattern formation , positive regulation of signal transduction , response to extracellular stimulus , response to organic substance , positive regulation of macromolecule biosynthetic process , positive regulation of phosphorus metabolic process , positive regulation of macromolecule metabolic process , negative regulation of macromolecule metabolic process , positive regulation of gene expression , negative regulation of gene expression , positive regulation of cell communication , negative regulation of cell development , positive regulation of pathway-restricted SMAD protein phosphorylation , regulation of cell death , positive regulation of cell death , regulation of gliogenesis , negative regulation of gliogenesis , response to organic cyclic substance , regulation of striated muscle tissue development , regulation of phosphate metabolic process , sexual reproduction , neural tube patterning , diencephalon development , telencephalon development , forebrain regionalization , dorsal/ventral neural tube patterning , neural tube development , telencephalon regionalization , pituitary gland development , ovulation cycle process , hemopoiesis , myeloid cell differentiation , neuron differentiation , erythrocyte differentiation , regulation of ossification , respiratory tube development , lung development , regulation of bone mineralization , positive regulation of bone mineralization , BMP signaling pathway , forebrain development , developmental induction , positive regulation of cellular biosynthetic process , regulation of protein modification process , positive regulation of protein modification process , response to nutrient levels , response to corticosteroid stimulus , regulation of cellular protein metabolic process , positive regulation of cellular protein metabolic process , regulation of chondrocyte differentiation , negative regulation of chondrocyte differentiation , response to estradiol stimulus , regulation of intracellular transport , positive regulation of intracellular transport , multicellular organism reproduction , response to retinoic acid , regulation of protein localization , regulation of intracellular protein transport , regulation of protein import into nucleus , translocation , positive regulation of protein import into nucleus , translocation , response to vitamin A , response to vitamin , erythrocyte homeostasis , tube morphogenesis , endocrine system development , tube development , growth , regulation of cell proliferation , regulation of protein import into nucleus , regulation of phosphorylation , positive regulation of phosphorylation , odontogenesis of dentine-containing tooth , odontogenesis , homeostatic process , muscle cell differentiation , ovulation cycle , chordate embryonic development , camera-type eye development , tongue development , tongue morphogenesis , response to estrogen stimulus , development of primary sexual characteristics , cell fate commitment , cell-cell signaling involved in cell fate specification , regulation of transcription , negative regulation of cell differentiation , positive regulation of cell differentiation , regulation of myoblast differentiation , negative regulation of myoblast differentiation , regulation of osteoblast differentiation , positive regulation of osteoblast differentiation , regulation of glial cell differentiation , negative regulation of glial cell differentiation , positive regulation of ossification , negative regulation of cell cycle , negative regulation of striated muscle development , positive regulation of transcription , DNA-dependent , positive regulation of nucleobase , nucleoside , nucleotide and nucleic acid metabolic process , positive regulation of phosphate metabolic process , positive regulation of transcription , positive regulation of transcription from RNA polymerase II promoter , development of primary female sexual characteristics , female sex differentiation , regulation of nucleocytoplasmic transport , lung alveolus development , mesoderm morphogenesis , mesodermal cell differentiation , rhythmic process , blood vessel morphogenesis , hemopoietic or lymphoid organ development , response to steroid hormone stimulus , developmental growth , eye morphogenesis , camera-type eye morphogenesis , embryonic morphogenesis , reproductive structure development , reproductive process in a multicellular organism , reproductive cellular process , regulation of muscle development , negative regulation of muscle development , regulation of skeletal muscle tissue development , neuron fate commitment , regulation of oligodendrocyte differentiation , negative regulation of oligodendrocyte differentiation , tissue morphogenesis , gland development , regulation of skeletal muscle fiber development , branching morphogenesis of a tube , homeostasis of number of cells , epithelial cell proliferation , regulation of neurogenesis , negative regulation of neurogenesis , positive regulation of transport , positive regulation of developmental process , smooth muscle cell differentiation , regulation of muscle cell differentiation , negative regulation of muscle cell differentiation , regulation of striated muscle cell differentiation , positive regulation of nitrogen compound metabolic process , regulation of phosphorus metabolic process , cartilage development , positive regulation of protein transport , regulation of protein transport , positive regulation of multicellular organismal process , positive regulation of protein metabolic process , regulation of RNA metabolic process , positive regulation of RNA metabolic process , response to glucocorticoid stimulus , regulation of cell cycle , regulation of nervous system development , retina development in camera-type eye , lens induction in camera-type eye , regulation of cell development , regulation of cellular localization , bone development , regulation of SMAD protein nuclear translocation , positive regulation of SMAD protein nuclear translocation , regulation of pathway-restricted SMAD protein phosphorylation , lung morphogenesis , lung epithelium development , epithelium development , bronchus development , trachea development , branching involved in lung morphogenesis , epithelial cell proliferation involved in lung morphogenesis , bud dilation involved in lung branching , respiratory system development , developmental growth involved in morphogenesis , epithelial tube morphogenesis , ureteric bud morphogenesis , regulation of biomineral formation , positive regulation of biomineral formation , regulation of establishment of protein localization ,

| Validation Data

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