

Anti-Human/Mouse/Rat GDF5 Polyclonal Antibody**Polyclonal Antibody****Cat.NO.: PA06440**

3th Edition

Description: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) 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 the development of numerous tissue and cell types, including cartilage, joints, brown fat, teeth, and the growth of neuronal axons and dendrites. Mutations in this gene are associated with acromesomelic dysplasia, brachydactyly, chondrodysplasia, multiple synostoses syndrome, proximal symphalangism, and susceptibility to osteoarthritis. GDF5 (Growth Differentiation Factor 5) is a Protein Coding gene. Diseases associated with GDF5 include Du Pan Syndrome and Chondrodysplasia, Grebe Type. Among its related pathways are GPCR Pathway and Phospholipase-C Pathway. GO annotations related to this gene include identical protein binding and cytokine activity. An important paralog of this gene is GDF6.

Antigen: Synthesized peptide derived from the Internal region of human GDF-5.

Form:

How to use: 1.0 ml distilled water will be added to the product

Stability: Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

Dilution: PBS (pH7.4) containing 1% BSA

Application: This antibody can be used for western blotting in concentration of 1?5?g/ml.

Specificity: Predominantly expressed in long bones during embryonic development.