abcam

Product datasheet

Recombinant Human GDF6 protein ab50230

1 图像

描述

产品名称	重组人GDF6蛋白
纯度	> 95 % SDS-PAGE.
内毒素水平	< 0.100 Eu/µg
表达系统	Escherichia coli
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	TAFASRHGKR HGKKSRLRCS KKPLHVNFKE LGWDDWIIAP LEYEAYHCEG VCDFPLRSHL EPTNHAIIQT LMNSMDPGST PPSCCVPTKL TPISILYIDA GNNVVYKQYE DMVVESCGCR

技术指标

Our **Abpromise guarantee** covers the use of **ab50230** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Western blot Functional Studies SDS-PAGE
形式	Lyophilized

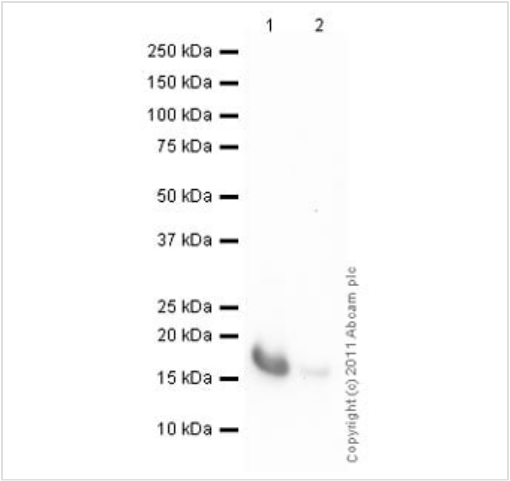
制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
复溶	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4oC for 1 week or -20oC for future use.

常规信息

功能	Growth factor that controls proliferation and cellular differentiation in the retina and bone formation. Plays a key role in regulating apoptosis during retinal development. Establishes dorsal-ventral positional information in the retina and controls the formation of the retinotectal map (PubMed:23307924). Required for normal formation of bones and joints in the limbs, skull, digits and axial skeleton. Plays a key role in establishing boundaries between skeletal elements during development. Regulation of GDF6 expression seems to be a mechanism for evolving species-specific changes in skeletal strucutres. Seems to positively regulates differentiation of chondrogenic tissue through the growth factor receptors subunits BMPR1A, BMPR1B, BMPR2 and ACVR2A, leading to the activation of SMAD1-SMAD5-SMAD8 complex. The regulation of chondrogenic differentiation is inhibited by NOG (PubMed:26643732). Also involved in the induction of adipogenesis from mesenchymal stem cells. This mechanism acts through the growth factor receptors subunits BMPR1A, BMPR2 and ACVR2A and the activation of SMAD1-SMAD5-SMAD8 complex and MAPK14/p38.
疾病相关	Klippel-Feil syndrome 1, autosomal dominant A chromosomal aberration involving GDF6 has been found in a patient with Klippel-Feil syndrome (KFS). Paracentric inv(8)(q22;2q23.3). Microphthalmia, isolated, 4 Leber congenital amaurosis 17 Defects in POP1 may be the cause of multiple synostoses syndrome (SYNS). SYNS is a bone disease characterized by multiple progressive joint fusions that commonly involve proximal interphalangeal, tarsal-carpal joints. Additional features can include progressive conductive deafness.
序列相似性	Belongs to the TGF-beta family.
细胞定位	Secreted.

图片



Western blot - Recombinant Human GDF6 protein (ab50230)

ab50230 is a homodimer consisting of two 120aa monomers. The homodimer format is expected to run at 27kDa, so the observed band is thought to be the monomer form.

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