产品名称：TGIF Rabbit Polyclonal Antibody
产品货号：APRab18861

产品概述（Summary）

产品名称（Production Name）	TGIF Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,ELISA
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	TGIF1
别名（Alternative Names）	TGIF1; TGIF; Homeobox protein TGIF1; 5'-TG-3'-interacting factor 1
基因 ID（Gene ID）	7050.0
蛋白 ID（SwissProt ID）	Q15583.Synthesized peptide derived from the C-terminal region of human TGIF.

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,ELISA 1:5000-1:20000
蛋白分子量（Molecular Weight）	43kDa

研究背景（Background）

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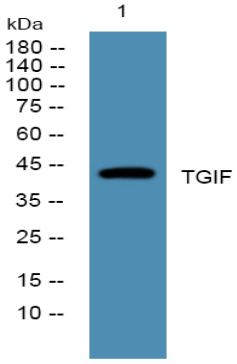
The protein encoded by this gene is a member of the three-amino acid loop extension (TALE) superclass of atypical homeodomains. TALE homeobox proteins are highly conserved transcription regulators. This particular homeodomain binds to a previously characterized retinoid X receptor responsive element from the cellular retinol-binding protein II promoter. In addition to its role in inhibiting 9-cis-retinoic acid-dependent RXR alpha transcription activation of the retinoic acid responsive element, the protein is an active transcriptional co-repressor of SMAD2 and may participate in the transmission of nuclear signals during development and in the adult. Mutations in this gene are associated with holoprosencephaly type 4, which is a structural anomaly of the brain. Alternative splicing has been observed at this locus and multiple splice variants encoding distinct isoforms are described. [providedisease:Defects in TGIF1 are the cause of holoprosencephaly type 4 (HPE4) [MIM:142946]. Holoprosencephaly (HPE) [MIM:236100] is the most common structural anomaly of the brain, in which the developing forebrain fails to correctly separate into right and left hemispheres. Holoprosencephaly is genetically heterogeneous and associated with several distinct facies and phenotypic variability.,function:Binds to a retinoid X receptor (RXR) responsive element from the cellular retinol-binding protein II promoter (CRBPII-RXRE). Inhibits the 9-cis-retinoic acid-dependent RXR alpha transcription activation of the retinoic acid responsive element. Active transcriptional corepressor of SMAD2. Links the nodal signaling pathway to the bifurcation of the forebrain and the establishment of ventral midline structures. May participate in the transmission of nuclear signals during development and in the adult, as illustrated by the down-modulation of the RXR alpha activities.,similarity:Belongs to the TALE/TGIF homeobox family.,similarity:Contains 1 homeobox DNA-binding domain.,subunit:Interacts with CTBP, SMAD2, SMAD3 and HDAC1.,

研究领域（Research Area）

Neuroscience; Neurology process; Neural Signal Transduction; Epigenetics and Nuclear Signaling; Nuclear Signaling Pathways; Nuclear Receptors; Co-activators/co-repressors; Retinoic & Retinoid; Stem Cells; Embryonic Stem Cells; Intracellular; SMADs; Neural Stem Cells; Transcription; Transcription Factors; Developmental Biology; Embryogenesis; Embryonic stem cells; Surface molecules

图片（Image Data）



Western blot analysis of lysates from KB cells, primary antibody was diluted at 1:1000, 4°over night

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注意事项（Note）

For research use only .