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TGIF1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14571a

Product Information

Application	WB, E
Primary Accession	Q15583
Other Accession	NP_003235.1, NP_775299.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34543
Calculated MW	43013
Antigen Region	81-109

Additional Information

Gene ID	7050
Other Names	Homeobox protein TGIF1, 5'-TG-3'-interacting factor 1, TGIF1, TGIF
Target/Specificity	This TGIF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-109 amino acids from the N-terminal region of human TGIF1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TGIF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TGIF1
Synonyms	TGIF
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.

Cellular Location Nucleus.

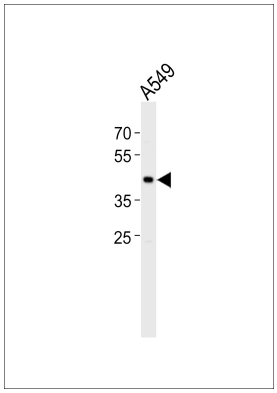
Background

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 eight variants, encoding four distinct isoforms, are described.

References

Bengoechea-Alonso, M.T., et al. Oncogene 29(38):5322-5328(2010)
Paulussen, A.D., et al. Eur. J. Hum. Genet. 18(9):999-1005(2010)
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Demange, C., et al. Mol. Cell 36(6):1073-1085(2009)
Hamid, R., et al. Mol Oncol 3 (5-6), 451-463 (2009) :

Images



Western blot analysis of lysate from A549 cell line, using TGIF1 Antibody (N-term)(Cat. #AP14571a). AP14571a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.