

TGIF1 Antibody (Center L223)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12061c

Specification

TGIF1 Antibody (Center L223) - Product Information

Application WB,E
Primary Accession O15583

Other Accession <u>Q8C0Y1</u>, <u>Q9GZN2</u>, <u>P70284</u>, <u>Q90655</u>,

NP 003235.1, NP 733796.2

Reactivity Human, Mouse

Predicted Chicken
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 43013
Antigen Region 208-237

TGIF1 Antibody (Center L223) - 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 208-237 amino acids from the Central 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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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 (Center L223) is for research use only and not for use in diagnostic or therapeutic procedures.

TGIF1 Antibody (Center L223) - 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.

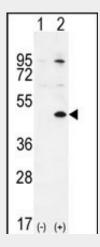
Cellular Location Nucleus.

TGIF1 Antibody (Center L223) - Protocols

Provided below are standard protocols that you may find useful for product applications.

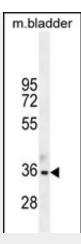
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

TGIF1 Antibody (Center L223) - Images



Western blot analysis of TGIF1 (arrow) using rabbit polyclonal TGIF1 Antibody (Center L223) (Cat. #AP12061c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TGIF1 gene.





TGIF1 Antibody (Center L223) (Cat. #AP12061c) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the TGIF1 antibody detected the TGIF1 protein (arrow).

TGIF1 Antibody (Center L223) - 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.

TGIF1 Antibody (Center L223) - 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) :