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# TGIF Antibody (Center L223) Blocking peptide

**Synthetic peptide**
**Catalog # BP7279c**

## Specification

### TGIF Antibody (Center L223) Blocking peptide - Product Information

Primary Accession Q15583

### TGIF Antibody (Center L223) Blocking peptide - Additional Information

**Gene ID** 7050

**Other Names**
Homeobox protein TGIF1, 5'-TG-3'-interacting factor 1, TGIF1, TGIF

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP7279c>AP7279c</a> was selected from the Center region of human TGIF1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### TGIF Antibody (Center L223) Blocking peptide - 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.

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## TGIF Antibody (Center L223) Blocking peptide - Protocols

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

- Blocking Peptides

## TGIF Antibody (Center L223) Blocking peptide - Images

## TGIF Antibody (Center L223) Blocking peptide - Background

TGIF1 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.

## TGIF Antibody (Center L223) Blocking peptide - References

Pertile,K.K., Invest. Ophthalmol. Vis. Sci. 49 (1), 49-54 (2008)Chavarria-Siles,I., Mol. Psychiatry 12 (11), 1033-1041 (2007)Ferrand,N., FASEB J. 21 (2), 488-496 (2007)