

**TGIF1 Antibody (Center L223) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12061c****Specification**

---

**TGIF1 Antibody (Center L223) Blocking peptide - Product Information**

Primary Accession [Q15583](#)

**TGIF1 Antibody (Center L223) Blocking peptide - Additional Information**

**Gene ID** 7050

**Other Names**

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

**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.

**TGIF1 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 (CRBP-II-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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **TGIF1 Antibody (Center L223) Blocking peptide - Images**

### **TGIF1 Antibody (Center L223) Blocking peptide - 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) Blocking peptide - 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) :