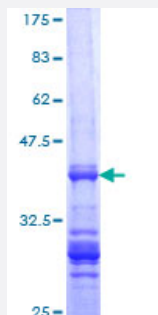


TGIF (Human) Recombinant Protein (Q01)

Catalog # H00007050-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human TGIF partial ORF (NP_003235, 163 a.a. - 272 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PGSVLARPSVICHITTVTALKDVPFSLCQSVGVGQNTDIQQIAAKNFTDTSLMYPEDTCKSGPSTNTQSGLFNTPPPTPPDLNQDFSGFQLLVDVALKRAAEMELQAKLTA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (89); Rat (85)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TGIF1

Entrez GeneID [7050](#)

GeneBank Accession# [NM_003244](#)

Protein Accession# [NP_003235](#)

Gene Name TGIF1

Gene Alias HPE4, MGC39747, MGC5066, TGIF

Gene Description TGFB-induced factor homeobox 1

Omim ID [142946](#) [602630](#) [605389](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

5'-TG-3' interacting factor|TALE homeobox TG-interacting factor|TG-interacting factor|homeobox protein TGIF|transforming growth factor-beta-induced factor

Disease

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Myopia](#)