

Product datasheet for **TA590367**

TGIF (TGIF1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	ELISA: 1:100-1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	DNA immunization. This antibody is specific for the C Terminus Region of the target protein.
Formulation:	20 mM Potassium Phosphate, 150 mM Sodium Chloride, pH 7.0
Concentration:	0.96569 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	TGFB induced factor homeobox 1
Database Link:	NP_777480 Entrez Gene 7050 Human Q15583



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Background:

Novel homeobox gene, denoted TGIF (5'TG3' interacting factor), belongs to an expanding TALE (three amino acid loop extension) superclass of atypical homeodomains. The TGIF homeodomain binds to a previously characterized retinoid X receptor (RXR) responsive element from the cellular retinol-binding protein II promoter (CRBP-II-RXRE), which contains an unusual DNA target for a homeobox (1). In vitro studies have implicated TGIF as a transcriptional repressor and corepressor in retinoid and TGF-beta signaling pathways that regulate several important biological processes. Heterozygous nonsense and missense mutations of the human TGIF gene have been associated with holoprosencephaly, the most common congenital malformation of the forebrain (2). It has been reported that TGIF plays an unexpected role in the inhibition of Smad2 phosphorylation, which occurs by a mechanism independent of its association with Smad2. This inhibitory function of TGIF is executed in concert with c-Jun, which facilitates the interaction of TGIF with cPML, resulting in the nuclear sequestration of cPML and the disruption of the cPML-SARA complex (3).

Synonyms:

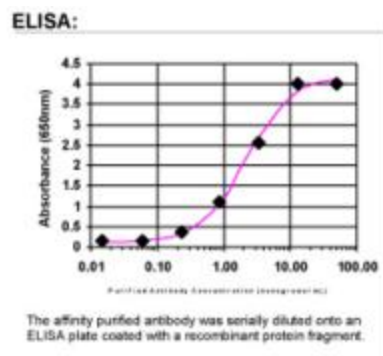
HPE4; TGIF

Note:

This antibody was generated by SDIX's Genomic Antibody Technology® (GAT). [Learn about GAT](#)

Protein Families:

Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

Product images:

ELISA: TGIF Antibody