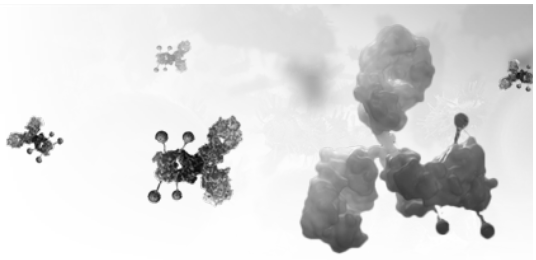

Anti-TGIF1 (aa 163-272) polyclonal antibody (DPAB-DC3062)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 multiple splice variants encoding distinct isoforms are described.
Immunogen	TGIF (NP_003235, 163 a.a. ~ 272 a.a) partial recombinant protein with GST tag. The sequence is PGSVLARPSVICHTTVTALKDVPFSLCQSVGVGQNTDIQQIAAKNFTDTSLMYPEDTCKS GPSTNTQSGLFNTPPPTPPDLNQDFSGFQLLVDVALKRAAEMELQAKLTA
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	TGIF1 TGFB-induced factor homeobox 1 [Homo sapiens (human)]
Official Symbol	TGIF1
Synonyms	TGIF1; TGFB-induced factor homeobox 1; HPE4; TGIF; homeobox protein TGIF1; 5-TG-3-interacting factor 1; TALE homeobox TG-interacting factor; transforming growth factor-beta-induced factor;
Entrez Gene ID	7050
Protein Refseq	NP_001265611
UniProt ID	Q15583
Chromosome Location	18p11.3
Pathway	Coregulation of Androgen receptor activity; Downregulation of SMAD2/3:SMAD4 transcriptional activity; Gene Expression; Id Signaling Pathway
Function	RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription; chromatin binding;

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