

Human TGIF1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7555

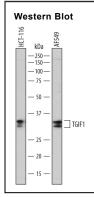
DESCRIPTION				
Species Reactivity	Human			
Specificity	Detects human TGIF1 in direct ELISAs and Western blots.			
Source	Polyclonal Sheep IgG			
Purification	Antigen Affinity-purified			
Immunogen	E. coli-derived recombinant human TGIF1 Lys245-Ser359 Accession # Q15583			
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.			

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA



Detection of Human TGIF1 by Western Blot. Western blot shows lysates of HCT-116 human colorectal carcinoma cell line and A549 human lung carcinoma cell line. PVDF membrane was probed with 0.5 μg/ml. of Sheep Anti-Human TGIF1 Antigen Affinity-purified Polydonal Antibody (Catalog # AF7555) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for TGIF1 at approximately 32-34 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PKE	PARAI	ION AI	ו 5 עוי	ORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TGIF1 (5'-TG[TCA]-3' Interacting Protein 1; also Transforming growth factor beta-induced factor and HPE4) is a 43 kDa (predicted) member of the TALE/TGIF homeobox family of proteins. It is widely expressed, and serves as a transcriptional corepressor for SMAD2-induced gene activation. Evidence suggests that it either complexes with c-jun and cPML, or interacts with HDAC in the nucleus to perform this function. It also binds to RXR response elements, blocking RXR-mediated gene activation. Such interactions are of considerable importance during fetal and neonatal development. Human TGIF1 is 401 amino acids (aa) in length. It contains a DNA-binding homeobox domain (aa 164-226) and two consecutive repressor domains (aa 267-401). There are multiple splice variants. One is very well characterized, is 33-35 kDa in size, and shows a four aa substitution for aa 1-133. This is most active when phosphorylated, which adds approximately 2-4 kDa to its SDS-PAGE MW. Two other splice forms contain a 19 aa substitution for aa 1-134, and utilize an alternative start site at Met150, respectively. Over aa 245-359, human TGIF1 shares 81% aa identity with mouse TGIF1.

Rev. 2/6/2018 Page 1 of 1

