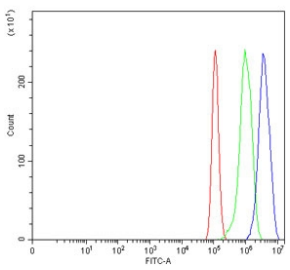
TGIF1 Antibody / 5-TG-3-interacting factor 1 / TGIF (RQ7442)

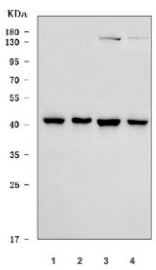
Catalog No.	Formulation	Size
RQ7442	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q15583
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This TGIF1 antibody is available for research use only.



Flow cytometry testing of human PC-3 cells with TGIF1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TGIF1 antibody.



Western blot testing of human 1) A549, 2) K562, 3) HeLa and 4) RT4 cell lysate with TGIF1 antibody. Predicted molecular weight ~43 kDa.

Description

Homeobox protein TGIF1 is a protein that in humans is encoded by the TGIF1 gene. 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.

Application Notes

Optimal dilution of the TGIF1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids D26-A401) was used as the immunogen for the TGIF1 antibody.

Storage

After reconstitution, the TGIF1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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