10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TGFBI Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16708a

Product Information

Application	WB, FC, E
Primary Accession	Q15582
Other Accession	Q95215, O11780, P82198, NP_000349.1
Reactivity	Human
Predicted	Mouse, Pig, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36082
Calculated MW	74681
Antigen Region	106-135

Additional Information

Gene ID	7045
Other Names	Transforming growth factor-beta-induced protein ig-h3, Beta ig-h3, Kerato-epithelin, RGD-containing collagen-associated protein, RGD-CAP, TGFBI, BIGH3
Target/Specificity	This TGFBI antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 106-135 amino acids from the N-terminal region of human TGFBI.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TGFBI Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TGFBI
Synonyms	BIGH3

Function	Plays a role in cell adhesion (PubMed: 8024701). May play a role in cell-collagen interactions (By similarity).
Cellular Location	Secreted. Secreted, extracellular space, extracellular matrix Note=May be associated both with microfibrils and with the cell surface (PubMed:8077289).
Tissue Location	Highly expressed in the corneal epithelium (PubMed:27609313, PubMed:8077289). Expressed in heart, placenta, lung, liver, skeletal muscle, kidney and pancreas (PubMed:8077289)

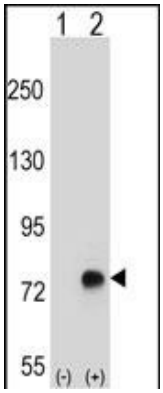
Background

This gene encodes an RGD-containing protein that binds to type I, II and IV collagens. The RGD motif is found in many extracellular matrix proteins modulating cell adhesion and serves as a ligand recognition sequence for several integrins. This protein plays a role in cell-collagen interactions and may be involved in endochondrial bone formation in cartilage. The protein is induced by transforming growth factor-beta and acts to inhibit cell adhesion. Mutations in this gene are associated with multiple types of corneal dystrophy.

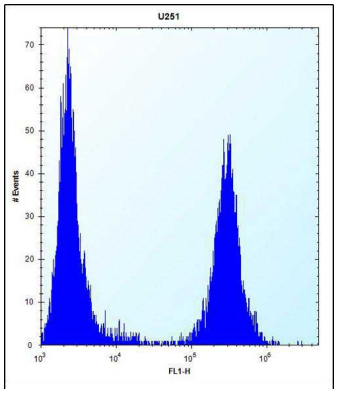
References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Edelstein, S.L., et al. Cornea 29(6):698-700(2010)
Romero, P., et al. Mol. Vis. 16, 1601-1609 (2010) :
Paliwal, P., et al. Mol. Vis. 16, 1429-1438 (2010) :
Yang, J., et al. Mol. Vis. 16, 1186-1193 (2010) :

Images



Western blot analysis of TGFBI (arrow) using rabbit polyclonal TGFBI Antibody (N-term) (Cat. #AP16708a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TGFBI gene.



TGFBI Antibody (N-term) (Cat. #AP16708a) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.