For Research Use Only

TGFBI/BIGH3 Recombinant monoclonal antibody

Catalog Number:80805-3-RR

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Basic Information

Catalog Number:
80805-3-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG1233

GenBank Accession Number:
NM_000358.3

GeneID (NCBI):
7045

ENSEMBL Gene ID:
ENSG00000120708

UNIPROT ID:
Q15582

Full Name:
transforming growth factor, beta-induced, 68kDa

Calculated MW:
75kDa

Observed MW:
68 kDa

Purification Method:
Protein A purification

CloneNo.:
243108H4

Recommended Dilutions:
WB: 1:2000-1:10000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : mouse eye tissue, HeLa cells, rat eye tissue, A549 cells, U-87 MG cells, MG-63 cells

Background Information

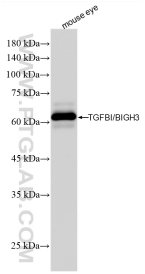
TGFBI, also named as BIGH3, Kerato-epithelin and RGD-CAP, binds to type I, II, and IV collagens. TGFBI is an adhesion protein which may play an important role in cell-collagen interactions. In cartilage, it may be involved in endochondral bone formation. TGFBI is an extracellular matrix adaptor protein, it has been reported to be differentially expressed in transformed tissues. TGFBI is a predictive factor of the response to chemotherapy, and suggest the use of TGFBI-derived peptides as possible therapeutic adjuvants for the enhancement of responses to chemotherapy.(PMID:20509890) Defects in TGFBI are the cause of epithelial basement membrane corneal dystrophy (EBMD). Defects in TGFBI are the cause of corneal dystrophy Groenouw type 1 (CDGG1). Defects in TGFBI are the cause of corneal dystrophy lattice type 1 (CDL1). Defects in TGFBI are a cause of corneal dystrophy Thiel-Behnke type (CDTB). Defects in TGFBI are the cause of Reis-Buecklers corneal dystrophy (CDRB). Defects in TGFBI are the cause of lattice corneal dystrophy type 3A (CDL3A). Defects in TGFBI are the cause of Avellino corneal dystrophy (ACD).

Storage

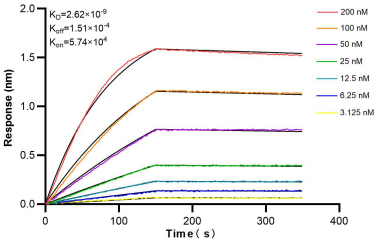
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



mouse eye tissue were subjected to SDS PAGE followed by western blot with 80805-3-RR (beta IG-H3/TGFBI antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 80805-3-RR against Human TGFBI/BIGH3 were performed. The affinity constant is 2.62 nM.