

Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10)

Rabbit Anti Human Monoclonal Antibody Catalog # ALS17999

Specification

Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10) - Product Information

Application WB, IHC-P, IP

Primary Accession <u>003167</u>

Predicted Human, Mouse, Rat

Host Rabbit Clonality Monoclonal

Isotype IgG
Calculated MW 93499

Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10) - Additional Information

Gene ID 7049

Alias Symbol TGFBR3

Other Names

TGFBR3, Betaglycan, BGCAN, TGF-beta receptor type 3, TGF-beta receptor type III, TGFR-3, Betaglycan proteoglycan, Tgf-beta receptors type iii

Target/Specificity

Endogenous levels of total TGF-b receptor III.

Reconstitution & Storage

Purified

Precautions

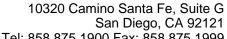
Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10) - Protein Information

Name TGFBR3 (HGNC:11774)

Function

Cell surface receptor that regulates diverse cellular processes including cell proliferation, differentiation, migration, and apoptosis (PubMed:12958365, PubMed:19416857). Initiates BMP, inhibin, and TGF-beta signaling pathways by interacting with different ligands including TGFB1, BMP2, BMP5, BMP7 or GDF5 (PubMed:18184661). Alternatively,





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acts as a cell surface coreceptor for BMP ligands, serving to enhance ligand binding by differentially regulating BMPR1A/ALK3 and BMPR1B/ALK6 receptor trafficking (PubMed: 19726563). Promotes epithelial cell adhesion, focal adhesion formation and integrin signaling during epithelial cell spreading on fibronectin (PubMed: 22562249). By interacting with the scaffolding protein betaarrestin2/ARRB2, regulates migration or actin cytoskeleton and promotes the activation of CDC42 as well as the inhibition of NF-kappa-B (PubMed:19416857, PubMed:19325136). In gonadotrope cells, acts as an inhibin A coreceptor and regulates follicle-stimulating hormone (FSH) levels and female fertility (By similarity). Plays a role in the inhibition of directed and random cell migration in epithelial cells by altering the actin cytoskeletal organization (PubMed: 19416857). Participates in epithelial-mesenchymal transformation (EMT) upon binding to BMP2 or TGFB2, by activating the PAR6/SMURF1/RHOA pathway (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Secreted {ECO:0000250|UniProtKB:P26342}. Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P26342}. Note=Exists both as a membrane-bound form and as soluble form in serum and in the extracellular matrix. {ECO:0000250|UniProtKB:P26342}

Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10) - Images

Anti-Betaglycan / TGFBR3 Antibody (Extracellular Domain, clone D11G10) - Citations

 Identification and analysis of key genes associated with ulcerative colitis based on DNA microarray data.