

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	Q03167
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](http://www.uniprot.org/citations/12958365), PubMed:[19416857](http://www.uniprot.org/citations/19416857)). Initiates BMP, inhibin, and TGF-beta signaling pathways by interacting with different ligands including TGFBI, BMP2, BMP5, BMP7 or GDF5 (PubMed:[18184661](http://www.uniprot.org/citations/18184661)). Alternatively,

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 beta-arrestin2/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](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.](#)