

**TGFBR3 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2733a****Specification**

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**TGFBR3 Antibody (internal region) - Product Information**

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|-------------------|----------------------------------------------------|
| Application       | E                                                  |
| Primary Accession | <a href="#">Q03167</a>                             |
| Other Accession   | <a href="#">NP_003234.2</a> , <a href="#">7049</a> |
| Predicted         | Human                                              |
| Host              | Goat                                               |
| Clonality         | Polyclonal                                         |
| Concentration     | 0.5 mg/ml                                          |
| Isotype           | IgG                                                |
| Calculated MW     | 93499                                              |

**TGFBR3 Antibody (internal region) - Additional Information****Gene ID** 7049**Other Names**

Transforming growth factor beta receptor type 3, TGF-beta receptor type 3, TGFR-3, Betaglycan, Transforming growth factor beta receptor III, TGF-beta receptor type III, TGFBR3

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TGFBR3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**TGFBR3 Antibody (internal region) - Protein Information****Name** TGFBR3 ([HGNC:11774](#))**Function**

Cell surface receptor that regulates diverse cellular processes including cell proliferation, differentiation, migration, and apoptosis (PubMed:<a href="http://www.uniprot.org/citations/12958365" target="\_blank">12958365</a>, PubMed:<a href="http://www.uniprot.org/citations/19416857" target="\_blank">19416857</a>). Initiates BMP, inhibin, and TGF-beta signaling pathways by interacting with different ligands including TGFBI, BMP2, BMP5, BMP7 or GDF5 (PubMed:<a href="http://www.uniprot.org/citations/18184661" target="\_blank">18184661</a>). 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:<a href="http://www.uniprot.org/citations/19726563" target="\_blank">19726563</a>). Promotes epithelial cell adhesion, focal adhesion formation and integrin signaling during epithelial cell spreading on fibronectin (PubMed:<a href="http://www.uniprot.org/citations/22562249" target="\_blank">22562249</a>). 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:<a href="http://www.uniprot.org/citations/19416857" target="\_blank">19416857</a>, PubMed:<a href="http://www.uniprot.org/citations/19325136" target="\_blank">19325136</a>). 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:<a href="http://www.uniprot.org/citations/19416857" target="\_blank">19416857</a>). 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}

### TGFBR3 Antibody (internal region) - 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](#)

### TGFBR3 Antibody (internal region) - Images

### TGFBR3 Antibody (internal region) - References

Expression of TGF beta1 genes and their receptor types I, II, and III in low- and high-grade malignancy non-Hodgkin's lymphomas. Woszczyk D, Gola J, Jurzak M, Mazurek U, Mykala-Ciesla J, Wilczok T. Med Sci Monit. 2004 Jan;10(1):CR33-7. PMID: 14704634