

TGFR3 Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22312a**Specification**

TGFR3 Antibody (N-Term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q03167
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	93499

TGFR3 Antibody (N-Term) - Additional Information**Gene ID** 7049**Other Names**

Transforming growth factor beta receptor type 3, TGF-beta receptor type 3, TGF-3, Betaglycan, Transforming growth factor beta receptor III, TGF-beta receptor type III, TGFR3

Target/Specificity

This TGFR3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 285-319 amino acids from the human region of human TGFR3.

Dilution

WB~~1:2000

IHC-P~~1:25

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

TGFR3 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

TGFR3 Antibody (N-Term) - Protein Information**Name** TGFR3 ([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, acts as a cell surface coreceptor for BMP ligands, serving to enhance ligand binding by differentially regulating BMPRI1A/ALK3 and BMPRI1B/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

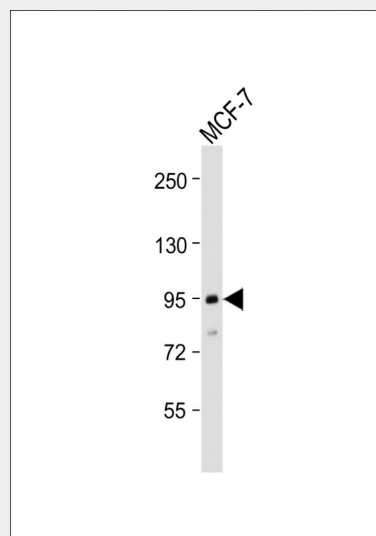
Cell membrane; Single-pass type I membrane protein. Secreted {ECO:0000250|UniProtKB:P26342}. Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P26342}. Note=Exists both as a membrane-bound form and as soluble form in serum and in the extracellular matrix. {ECO:0000250|UniProtKB:P26342}

TGFB3 Antibody (N-Term) - Protocols

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

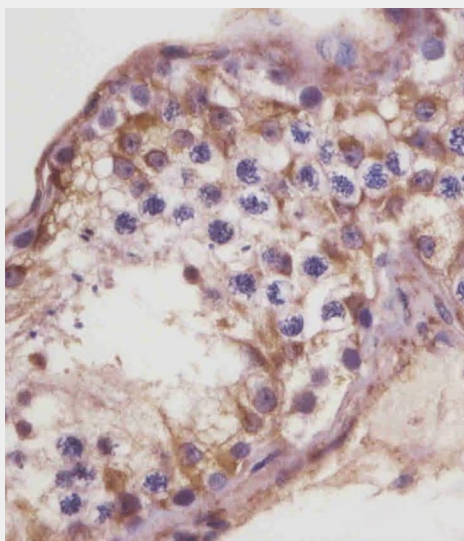
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TGFB3 Antibody (N-Term) - Images

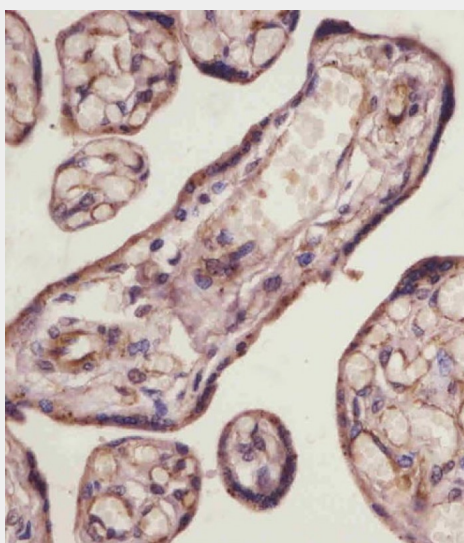


Anti-TGFB3 Antibody (N-Term) at 1:2000 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000

dilution. Predicted band size : 93 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP22312a staining TGFBR3 in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AP22312a staining TGFBR3 in human placenta tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

TGFBR3 Antibody (N-Term) - Background

Binds to TGF-beta. Could be involved in capturing and retaining TGF-beta for presentation to the signaling receptors.

TGFBR3 Antibody (N-Term) - References

Moren A., et al. Biochem. Biophys. Res. Commun. 189:356-362(1992).
Zippert R., et al. J. Hum. Genet. 45:250-253(2000).

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Meng Q.-J.,et al.J. Biol. Chem. 281:37069-37080(2006).