



Anti-TGFR3 monoclonal antibody, clone 42409 (DCABY-4041)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Most cell types express three sizes of receptors for TGF-beta. These are designated Type I (53 kDa), Type II (70 - 85 kDa), and Type III (250 - 350 kDa). The Type I receptor is a membrane-bound serine/threonine kinase that apparently requires the presence of the Type II receptor to bind TGF-beta. The Type II receptor is also a membrane-bound serine/threonine kinase that binds TGF-beta1 and TGF-beta 3 with high affinity and TGF-beta 2 with much lower affinity. The Type I and Type II receptors together form a heterodimeric signaling complex that is essential for the transduction of the anti-proliferative signals of TGF-beta. The Type III receptor is a transmembrane proteoglycan with a large extracellular domain and a 43 amino acid residue cytoplasmic domain. The cytoplasmic domain of the Type III receptor lacks an obvious signaling motif and the receptor may not be involved directly in signal transduction.
Specificity	Detects human TGF-beta RIII in ELISAs. In sandwich immunoassays, no cross-reactivity or interference with recombinant human (rh)TGF-beta RI, RII, RIIB, recombinant mouse (rm)TGF-beta RIII, rhTGF-beta 1, beta 1.2, beta 2, beta 3, rhLatent TGF-beta 1, or rhLAP is observed.
Immunogen	Murine myeloma cell line, NS0-derived recombinant human TGF-beta RIII. Gly21-Asp781 Accession Number AAA67061
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	42409
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated

Applications	ELISA Capture (Matched Pair)
Format	Liquid
Size	500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	TGFB3 transforming growth factor, beta receptor III [Homo sapiens (human)]
Official Symbol	TGFB3
Synonyms	TGFB3; transforming growth factor, beta receptor III; BGCAN; betaglycan; transforming growth factor beta receptor type 3; TGFR-3; betaglycan proteoglycan; TGF-beta receptor type 3; TGF-beta receptor type III;
Entrez Gene ID	7049
Protein Refseq	NP_001182612
UniProt ID	Q03167
Chromosome Location	1p33-p32
Pathway	TGF Beta Signaling Pathway; TGF-beta Receptor Signaling Pathway; TGF-beta receptor signaling;
Function	PDZ domain binding; SMAD binding; activin binding; coreceptor activity; fibroblast growth factor binding; glycosaminoglycan binding; heparin binding; protein binding; contributes_to protein binding; transforming growth factor beta binding; transforming gr