



# Anti-TGFR2 polyclonal antibody (DPABY-264)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Specificity</b>	Detects human TGF-beta RII in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse (rm)TGF-beta RII and less than 1% cross-reactivity with recombinant human TGF-beta RIII and rmTGF-beta RI is observed.
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human TGF-beta RII. Ile24-Asp159 Accession Number P37173.2
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot, Flow Cytometry, Immunohistochemistry, ELISA Capture (Matched Pair), Neutralization
<b>Format</b>	Liquid

<b>Size</b>	250 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">TGFB2 transforming growth factor, beta receptor II (70/80kDa) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	TGFB2
<b>Synonyms</b>	TGFB2; transforming growth factor, beta receptor II (70/80kDa); AAT3; FAA3; LDS2; MFS2; RIIC; LDS1B; LDS2B; TAAD2; TGFR-2; TGFbeta-RII; TGF-beta receptor type-2; tbetaR-II; TGF-beta type II receptor; TGF-beta receptor type IIB; transforming growth factor
<b>Entrez Gene ID</b>	<a href="#">7048</a>
<b>Protein Refseq</b>	<a href="#">NP_001020018</a>
<b>UniProt ID</b>	<a href="#">D2JY11</a>
<b>Chromosome Location</b>	3p22
<b>Pathway</b>	ALK1 signaling events; Adherens junction; Chagas disease (American trypanosomiasis); Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Disease; Downregulation of TGF-beta receptor signaling;
<b>Function</b>	ATP binding; SMAD binding; glycosaminoglycan binding; metal ion binding; mitogen-activated protein kinase kinase kinase binding; protein binding; contributes_to protein binding; receptor signaling protein serine/threonine kinase activity; transforming gro