



Human TGFBR2 blocking peptide (DAG-P1244)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the Ser/Thr protein kinase family and the TGFB receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Dietz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008]
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily. Contains 1 protein kinase domain.
Format	Liquid
Buffer	pH: 8.50 Constituents: 10% DMSO, 0.6% Tris, 0.15% EDTA, 0.1% BSA
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.50 Constituents: 10% DMSO, 0.6% Tris, 0.15% EDTA, 0.1% BSA

GENE INFORMATION

Gene Name	TGFBR2 transforming growth factor, beta receptor II (70/80kDa) [Homo sapiens (human)]
Official Symbol	TGFBR2

Synonyms	TGFBR2; 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 beta receptor type IIC; transforming growth factor, beta receptor II beta; transforming growth factor, beta receptor II alpha; transforming growth factor, beta receptor II delta; transforming growth factor, beta receptor II gamma; transforming growth factor, beta receptor II epsilon;
Entrez Gene ID	7048
mRNA Refseq	NM_001024847.2
Protein Refseq	NP_001020018.1
UniProt ID	D2JYI1
Chromosome Location	3p22
Pathway	ALK1 signaling events, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem; Colorectal cancer, organism-specific biosystem; Colorectal cancer, conserved biosystem; Cytokine-cytokine receptor interac
Function	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
