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Product Information

MemDX™ Antibody Discovery - Human TGF-beta RII / TGFBR2 (23-159) Membrane Protein, Partial, -hIgG1 Fc -Avi tag, [Biotin]

Cat. No.: **MP0438F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human TGF-beta RII / TGFBR2 (23-159). It has been tested in SDS-PAGE, ELISA, SEC-MALS. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
TGF-beta RII / TGFBR2

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 43.7 kDa. The protein migrates as 55-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Thr 23 - Asp 159 (Accession # P37173-1).

Product Description

Activity
Yes

Application
SDS-PAGE, ELISA, SEC-MALS

Expression Systems
HEK293

Tag
Human IgG1 Fc tag at the C-terminus, followed by a Avi tag

Protein Format
Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Conjugation

Biotin

Purity

>95% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

Buffer

Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

TGF-beta RII / TGFBR2

Full Name

transforming growth factor beta receptor 2

Introduction

The protein encoded by this gene is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with TGF-beta receptor type-1, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of genes related to cell proliferation, cell cycle arrest, wound healing, immunosuppression, and tumorigenesis. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized.

Alternative Names

AAT3; FAA3; LDS2; MFS2; RIIC; LDS1B; LDS2B; TAAD2; TBRII; TBR-ii; TGFR-2; TGFbeta-RII; TGF-beta receptor type-2; TGF-beta receptor type IIB; TGF-beta type II receptor; tbetaR-II; transforming growth factor beta receptor II; transforming growth factor beta receptor type IIC; transforming growth factor, beta receptor II (70/80kDa); transforming growth factor, beta receptor II alpha; transforming growth factor, beta receptor II beta; transforming growth factor, beta receptor II delta; transforming growth factor, beta receptor II epsilon; transforming growth factor, beta receptor II gamma

Gene ID

7048

UniProt ID

P37173