

ARG66433 anti-TGFR2 / TGF beta Receptor II antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes TGFR2 / TGF beta Receptor II
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1, kappa
Target Name	TGFR2 / TGF beta Receptor II
Species	Human
Immunogen	Synthetic peptide derived from Human TGFR2 / TGF beta Receptor II.
Conjugation	Un-conjugated
Alternate Names	FAA3; AAT3; TbetaR-II; TGF-beta receptor type-2; LDS2B; MFS2; TGF-beta type II receptor; EC 2.7.11.30; TAAD2; TGFR-2; LDS2; Transforming growth factor-beta receptor type II; TGFbeta-RII; TGF-beta receptor type II; RIIC; LDS1B

Application Instructions

Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>IHC-P</td><td>1:100 - 1:500</td></tr> </table>	Application	Dilution	IHC-P	1:100 - 1:500
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Application Note	<p>IHC-P: Antigen Retrieval: Heat mediation was performed.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>				

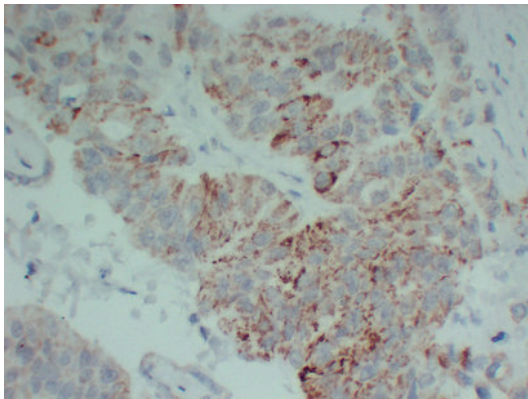
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

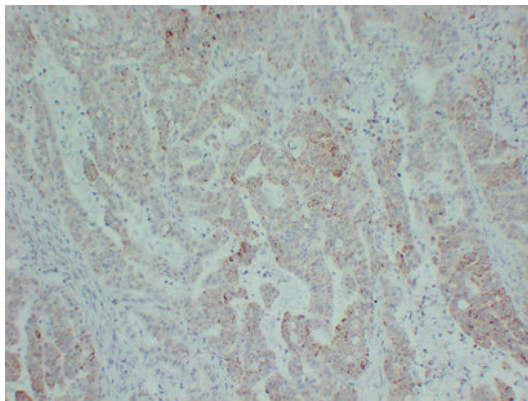
Gene Symbol	TGFB2
Gene Full Name	transforming growth factor, beta receptor II (70/80kDa)
Background	This gene encodes a member of the Ser/Thr protein kinase family and the TGFB receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex 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-Deitz 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]
Function	Transmembrane serine/threonine kinase forming with the TGF-beta type I serine/threonine kinase receptor, TGFB1, the non-promiscuous receptor for the TGF-beta cytokines TGFB1, TGFB2 and TGFB3. Transduces the TGFB1, TGFB2 and TGFB3 signal from the cell surface to the cytoplasm and is thus regulating a plethora of physiological and pathological processes including cell cycle arrest in epithelial and hematopoietic cells, control of mesenchymal cell proliferation and differentiation, wound healing, extracellular matrix production, immunosuppression and carcinogenesis. The formation of the receptor complex composed of 2 TGFB1 and 2 TGFB2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and the activation of TGFB1 by the constitutively active TGFB2. Activated TGFB1 phosphorylates SMAD2 which dissociates from the receptor and interacts with SMAD4. The SMAD2-SMAD4 complex is subsequently translocated to the nucleus where it modulates the transcription of the TGF-beta-regulated genes. This constitutes the canonical SMAD-dependent TGF-beta signaling cascade. Also involved in non-canonical, SMAD-independent TGF-beta signaling pathways. [UniProt]
Calculated Mw	65 kDa
PTM	Phosphorylated on a Ser/Thr residue in the cytoplasmic domain. [UniProt]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. Membrane raft. [UniProt]

Images



ARG66433 anti-TGFB2 / TGF beta Receptor II antibody IHC-P image

Immunohistochemistry: Paraffin-embedded colon carcinoma stained with ARG66433 anti-TGFB2 / TGF beta Receptor II antibody at 1:200, 4°C and overnight. Antigen Retrieval: Heat mediation was performed.



ARG66433 anti-TGFR2 / TGF beta Receptor II antibody IHC-P image

Immunohistochemistry: Paraffin-embedded colon carcinoma stained with ARG66433 anti-TGFR2 / TGF beta Receptor II antibody at 1:200, 4°C and overnight. Antigen Retrieval: Heat mediation was performed.