



TGFβ RII Monoclonal Antibody

Catalog No	BYmab-13696
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TGFR2
Protein Name	TGF-beta receptor type-2
Immunogen	The antiserum was produced against synthesized peptide derived from human TGF beta Receptor II. AA range:91-140
Specificity	TGF β RII Monoclonal Antibody detects endogenous levels of TGF β RII protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TGFR2; TGF-beta receptor type-2; TGFR-2; TGF-beta type II receptor; Transforming growth factor-beta receptor type II; TGF-beta receptor type II; TbetaR-II
Observed Band	65kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Membrane raft .; [Isoform 3]: Secreted .
Tissue Specificity	Cerebellum,Colon,Epithelium,Glial cell,Liver,
Function	catalytic activity:ATP + [receptor-protein] = ADP + [receptor-protein] phosphate.;cofactor:Magnesium or manganese.;disease:Defects in TGFR2 are a cause of esophageal cancer [MIM:133239].;disease:Defects in TGFR2 are the cause of aortic aneurysm familial thoracic type 3 (AAT3) [MIM:610380]. Aneurysms and dissections of the aorta usually result from degenerative changes in the aortic wall. Thoracic aortic aneurysms and dissections are primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and

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fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance. AAT3 is an autosomal dominant disorder with reduced penetrance and variable expression.,disease:Defects in TGFBR2 are the cause of hereditary non-polyposis colorectal cancer type 6 (HN

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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

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网址: www.njbybio.com

官方热线: 025-5229-8998

监督电话: 15950492658