



# TGFR2 (Phospho-Tyr284) mouse mAb

Catalog No	BYmab-10470
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	TGFR2
Protein Name	TGFR2 (Phospho-Tyr284)
Immunogen	Synthesized peptide derived from human TGFR2 (Phospho-Tyr284)
Specificity	This antibody detects endogenous levels of TGFR2 (Phospho-Tyr284) at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, and 0.125% 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	TGF-beta receptor type-2 (TGF-2) (EC 2.7.11.30) (TGF-beta type II receptor) (Transforming growth factor-beta receptor type II) (TGF-beta receptor type II) (TbetaR-II)
Observed Band	75kD
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 fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation

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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



Western Blot analysis of various cells using TGFBR2 (Phospho-Tyr284) mouse mAb

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