

产品名称: TGFβ RI Rabbit Polyclonal Antibody
产品货号: AP Rab18855



产品概述 (Summary)

产品名称 (Production Name)	TGFβ RI Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC/IF, ELISA
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	TGFB1 TGFB1; ALK5; SKR4; TGF-beta receptor type-1; TGFR-1; Activin A receptor type II-like protein kinase of 53kD; Activin receptor-like kinase 5; ALK-5; ALK5;
别名 (Alternative Names)	Serine/threonine-protein kinase receptor R4; SKR4; TGF-beta type I receptor; Transfor
基因 ID (Gene ID)	7046.0
蛋白 ID (SwissProt ID)	P36897. The antiserum was produced against synthesized peptide derived from human TGF beta Receptor I. AA range: 131-180

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000, ICC/IF 1:100-1:300, ELISA 1:10000-1:20000
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蛋白分子量 (Molecular Weight) 56kDa

研究背景 (Background)

The protein encoded by this gene forms a heteromeric complex with type II TGF-beta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008], catalytic activity: ATP + [receptor-protein] = ADP + [receptor-protein] phosphate., cofactor: Magnesium or manganese., disease: Defects in TGFBR1 are the cause of aortic aneurysm familial thoracic type 5 (AAT5) [MIM:608967]. 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' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance., disease: Defects in TGFBR1 are the cause of Loeys-Dietz syndrome type 1A (LDS1A) [MIM:609192]; also known as Furlong syndrome or Loeys-Dietz aortic aneurysm syndrome (LDAS). LDS1 is an aortic aneurysm syndrome with widespread systemic involvement. The disorder is characterized by arterial tortuosity and aneurysms, craniosynostosis, hypertelorism, and bifid uvula or cleft palate. Other findings include exotropia, micrognathia and retrognathia, structural brain abnormalities, intellectual deficit, congenital heart disease, translucent skin, joint hyperlaxity and aneurysm with dissection throughout the arterial tree., disease: Defects in TGFBR1 are the cause of Loeys-Dietz syndrome type 2A (LDS2A) [MIM:608967]. LDS2 is an aortic aneurysm syndrome with widespread systemic involvement. Physical findings include prominent joint laxity, easy bruising, wide and atrophic scars, velvety and translucent skin with easily visible veins, spontaneous rupture of the spleen or bowel, diffuse arterial aneurysms and dissections, and catastrophic complications of pregnancy, including rupture of the gravid uterus and the arteries, either during pregnancy or in the immediate postpartum period. LDS2 is characterized by the absence of craniofacial abnormalities with the exception of bifid uvula that can be present in some patients., function: On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for TGF-beta., PTM: Phosphorylated at basal levels in the absence of ligand binding. Activated by multiple phosphorylation, mainly in the GS region., similarity: Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFBR receptor subfamily., similarity: Contains 1 GS domain., similarity: Contains 1 protein kinase domain., subunit: Interacts with CD109. The unphosphorylated protein interacts with FKBP1A and is stabilized in the inactive conformation. Phosphorylation of the GS region abrogates FKBP1A binding. Interacts with SMAD2 when phosphorylated on several residues in the GS region., tissue specificity: Found in all tissues examined, most abundant in placenta and least abundant in brain and heart.,

研究领域 (Research Area)

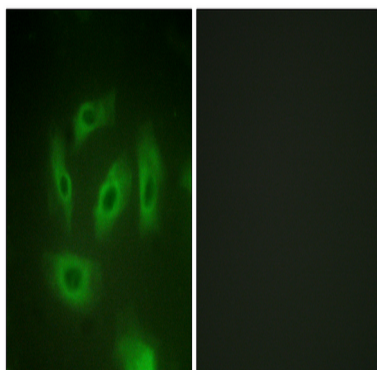
MAPK_ERK_Growth; MAPK_G_Protein; Cytokine-cytokine receptor interaction; Endocytosis; TGF-beta; Adherens_Junction; Pathways in

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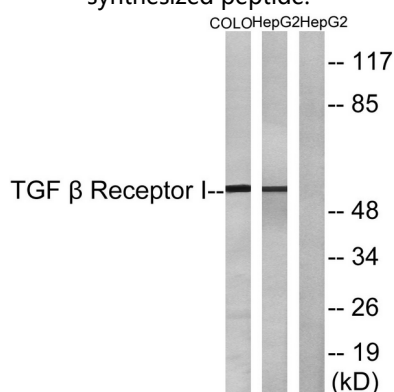


cancer;Colorectal cancer;Pancreatic cancer;Chronic myeloid leukemia;

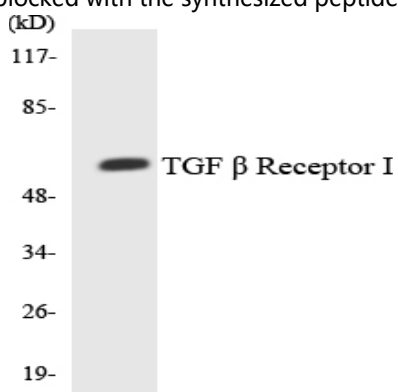
图片 (Image Data)



Immunofluorescence analysis of HeLa cells, using TGF beta Receptor I Antibody. The picture on the right is blocked with the synthesized peptide.

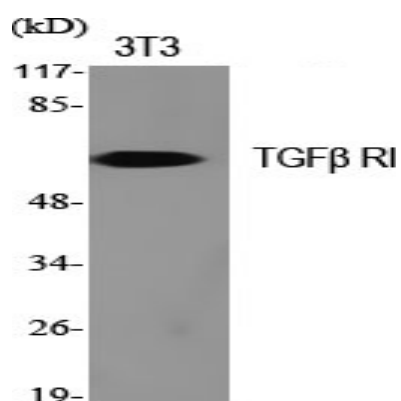


Western blot analysis of lysates from HepG2 and COLO cells, using TGF beta Receptor I Antibody. The lane on the right is blocked with the synthesized peptide.

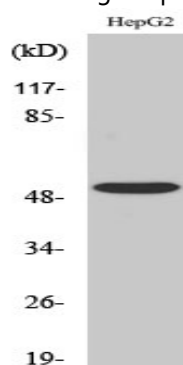


Western blot analysis of the lysates from HeLa cells using TGF β Receptor I antibody.

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Western Blot analysis of various cells using TGF β RI Polyclonal Antibody diluted at 1: 500



Western Blot analysis of COLO205 cells using TGF β RI Polyclonal Antibody diluted at 1: 500

注意事项 (Note)

For research use only .