

## TGF $\beta$ RI Polyclonal Antibody

<b>Catalog No :</b>	YT4627
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	TGF $\beta$ Receptor I
<b>Fields :</b>	>>MAPK signaling pathway;>>Cytokine-cytokine receptor interaction;>>FoxO signaling pathway;>>Endocytosis;>>Cellular senescence;>>TGF-beta signaling pathway;>>Apelin signaling pathway;>>Osteoclast differentiation;>>Hippo signaling pathway;>>Adherens junction;>>Th17 cell differentiation;>>Relaxin signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Chagas disease;>>Hepatitis B;>>Human T-cell leukemia virus 1 infection;>>Pathways in cancer;>>Colorectal cancer;>>Pancreatic cancer;>>Chronic myeloid leukemia;>>Hepatocellular carcinoma;>>Gastric cancer;>>Diabetic cardiomyopathy
<b>Gene Name :</b>	TGFBR1
<b>Protein Name :</b>	TGF-beta receptor type-1
<b>Human Gene Id :</b>	7046
<b>Human Swiss Prot No :</b>	P36897
<b>Mouse Gene Id :</b>	21812
<b>Mouse Swiss Prot No :</b>	Q64729
<b>Rat Swiss Prot No :</b>	P80204
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human TGF beta Receptor I. AA range:131-180
<b>Specificity :</b>	TGF $\beta$ RI Polyclonal Antibody detects endogenous levels of TGF $\beta$ RI protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

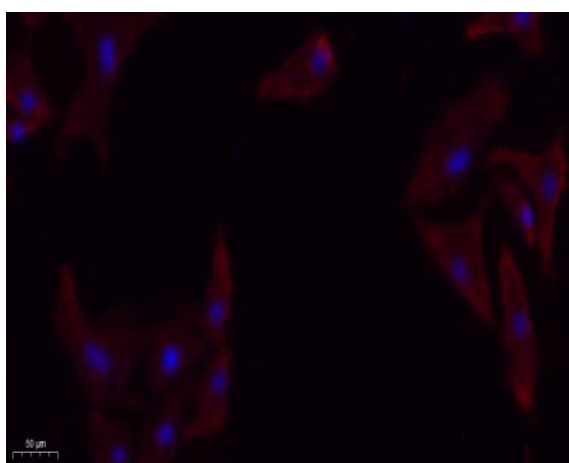
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:20000. IF 1:100-300 Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	56kD
<b>Cell Pathway :</b>	MAPK_ERK_Growth;MAPK_G_Protein;Cytokine-cytokine receptor interaction;Endocytosis;TGF-beta;Adherens_Junction;Pathways in cancer;Colorectal cancer;Pancreatic cancer;Chronic myeloid leukemia;
<b>Background :</b>	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],
<b>Function :</b>	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 tort
<b>Subcellular Location :</b>	Cell membrane ; Single-pass type I membrane protein . Cell junction, tight junction . Cell surface . Membrane raft .
<b>Expression :</b>	Found in all tissues examined, most abundant in placenta and least abundant in brain and heart. Expressed in a variety of cancer cell lines (PubMed:25893292).
<b>Tag :</b>	orthogonal

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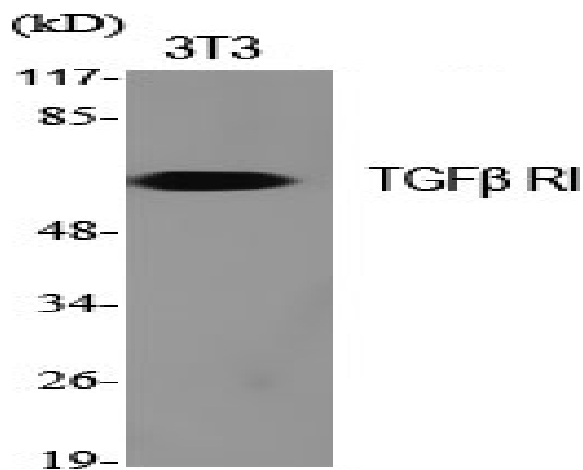
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<b>No3 :</b>	<u>ab235578</u>
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<b>Host :</b>	<u>Rabbit</u>
<b>Modifications :</b>	<u>Unmodified</u>

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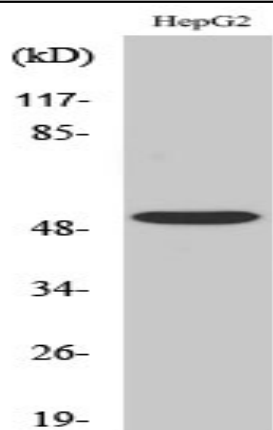
## Products Images



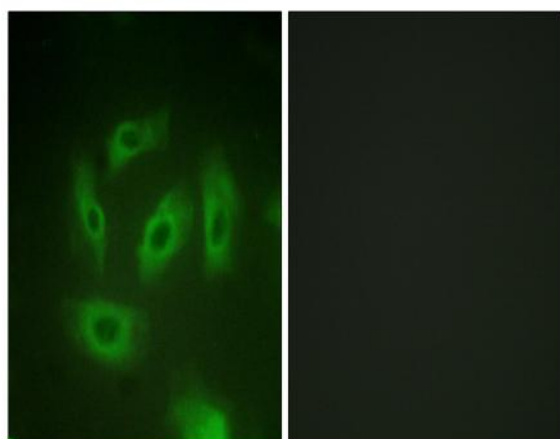
Immunofluorescence analysis of A549. 1, primary Antibody (red) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min.



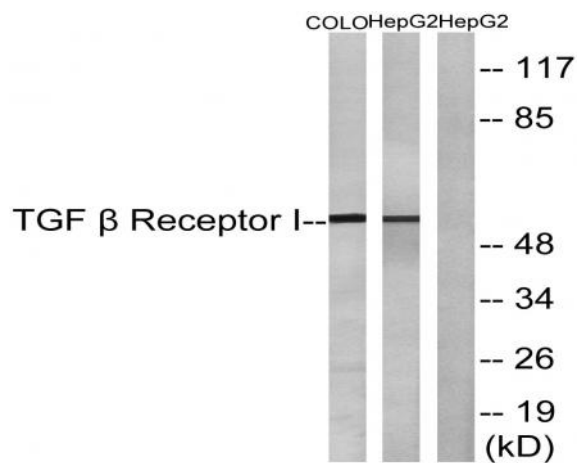
Western Blot analysis of various cells using TGFβ RI Polyclonal Antibody diluted at 1:500



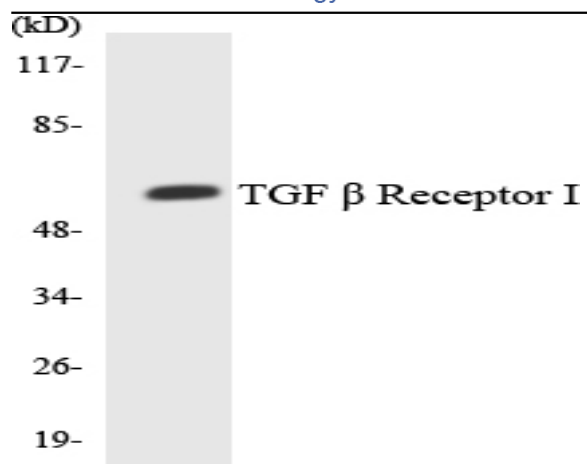
Western Blot analysis of COLO205 cells using TGF $\beta$  RI Polyclonal Antibody diluted at 1:500



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  $\beta$  Receptor I antibody.