

TGFβ RI rabbit pAb**Cat#: orb766469 (Manual)**

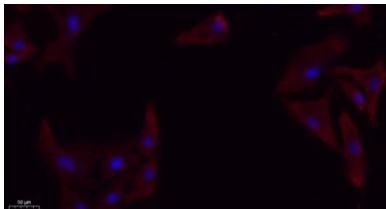
For research use only. Not intended for diagnostic use.

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|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Product Name | TGFβ RI rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. IF 1:100-300 Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human TGF beta Receptor I. AA range:131-180 |
| Specificity | TGFβ RI Polyclonal Antibody detects endogenous levels of TGFβ RI protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | TGF-beta receptor type-1 |
| Gene Name | TGFBR1 |
| Cellular localization | Cell membrane ; Single-pass type I membrane protein . Cell junction, tight junction . Cell surface . Membrane raft . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |

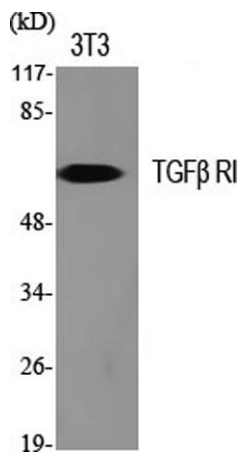
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| Concentration | 1 mg/ml |
| Observed band | 56kD |
| Human Gene ID | 7046 |
| Human Swiss-Prot Number | P36897 |
| Alternative Names | TGFBR1; ALK5; SKR4; TGF-beta receptor type-1; TGFR-1; Activin A receptor type II-like protein kinase of 53kD; Activin receptor-like kinase 5; ALK-5; ALK5; Serine/threonine-protein kinase receptor R4; SKR4; TGF-beta type I receptor; Transfor |

Background

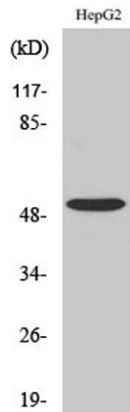
The protein encoded by this gene forms a heteromeric complex with type II TGF-beta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008],



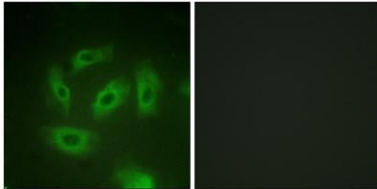
Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



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



Western Blot analysis of COLO205 cells using TGF β 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.