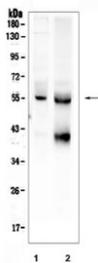


## TGFBR1 Antibody (R32084)

Catalog No.	Formulation	Size
R32084	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P36897
<b>Applications</b>	Western Blot : 0.1-0.5ug/ml
<b>Limitations</b>	This TGFBR1 antibody is available for research use only.



Western blot testing of human 1) HeLa and 2) SW579 cell lysate with TGFBR1 antibody. Expected molecular weight ~55 kDa.

## Description

Transforming growth factor, beta receptor I is a TGF beta receptor. TGFBR1 is its human gene. 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. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). TGFBR1 regulates cell cycle progression by a unique signaling mechanism that involves its binding to TGFBR2 and activation of TGFBR1. Both are transmembrane serine/threonine receptor kinases. The TGFBR1 receptor may be inactivated in many of the cases of human tumor cells refractory to TGF-beta-mediated cell cycle arrest. Vellucci and Reiss (1997) reported that the TGFBR1 gene is approximately 31 kb long and contains 9 exons. The

organization of the segment of the gene that encodes the C-terminal portion of the serine/threonine kinase domain appears to be highly conserved among members of the gene family.

## Application Notes

Optimal dilution of the TGFBR1 antibody should be determined by the researcher.

## Immunogen

Amino acids HNRTVIHHRVPNEEDPSLDRPFISEGTTLKDLIYDMTT of human TGFBR1 were used as the immunogen for the TGFBR1 antibody.

## Storage

After reconstitution, the TGFBR1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.