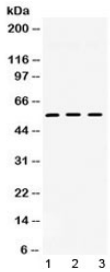
TGF beta receptor I Antibody (R32569)

Catalog No.	Formulation	Size
R32569	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P36897
Applications	Western Blot : 0.5-1ug/ml
Limitations	This TGF beta receptor I antibody is available for research use only.



Western blot testing of 1) rat heart, 2) mouse liver and 3) human HeLa lysate with TGF beta receptor I antibody at 0.5ug/ml. Predicted/observed 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). TGFB1 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 TGFB-mediated cell cycle arrest.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the TGF beta receptor I antibody to be titrated for optimal performance.

Immunogen

Amino acids 149-186 (HNRTVIHHRVPNEEDPSLDRPFISEGTTLKDLIYDMTT from the human protein were used as the immunogen for the TGF beta receptor I antibody.

Storage

After reconstitution, the TGF beta receptor I antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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