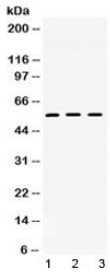
# TGF beta receptor I Antibody (R32569)

| 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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