

**Mouse Tgfr2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17322b****Specification**

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**Mouse Tgfr2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q62312</a>
Other Accession	<a href="#">NP_033397.3</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	64219
Antigen Region	548-575

**Mouse Tgfr2 Antibody (C-term) - Additional Information****Gene ID** 21813**Other Names**

TGF-beta receptor type-2, TGFR-2, TGF-beta type II receptor, Transforming growth factor-beta receptor type II, TGF-beta receptor type II, TbetaR-II, Tgfr2

**Target/Specificity**

This Mouse Tgfr2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 548-575 amino acids from the C-terminal region of mouse Tgfr2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Tgfr2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Tgfr2 Antibody (C-term) - Protein Information****Name** Tgfr2**Function** Transmembrane serine/threonine kinase forming with the TGF- beta type I

serine/threonine kinase receptor, TGFBR1, the non- promiscuous receptor for the TGF-beta cytokines TGFBI, TGFB2 and TGFB3. Transduces the TGFBI, TGFB2 and TGFB3 signal from the cell surface to the cytoplasm and is thus regulating a plethora of physiological and pathological processes including cell cycle arrest in epithelial and hematopoietic cells, control of mesenchymal cell proliferation and differentiation, wound healing, extracellular matrix production, immunosuppression and carcinogenesis. The formation of the receptor complex composed of 2 TGFBR1 and 2 TGFBR2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and the activation of TGFBR1 by the constitutively active TGFBR2. Activated TGFBR1 phosphorylates SMAD2 which dissociates from the receptor and interacts with SMAD4. The SMAD2-SMAD4 complex is subsequently translocated to the nucleus where it modulates the transcription of the TGF-beta-regulated genes. This constitutes the canonical SMAD-dependent TGF-beta signaling cascade. Also involved in non-canonical, SMAD-independent TGF-beta signaling pathways (By similarity).

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P37173}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P37173} Membrane raft {ECO:0000250|UniProtKB:P37173}

#### Tissue Location

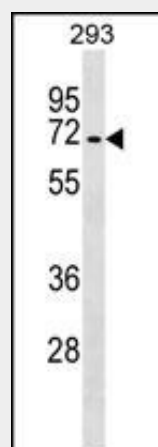
Widely expressed in adult. Expressed primarily in mesenchyme and epidermis of the midgestational fetus

#### Mouse Tgfbr2 Antibody (C-term) - Protocols

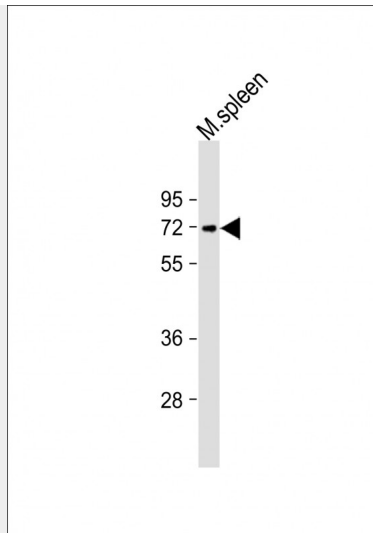
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Mouse Tgfbr2 Antibody (C-term) - Images



Mouse Tgfbr2 Antibody (C-term) (Cat. #AP17322b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the Tgfbr2 antibody detected the Tgfbr2 protein (arrow).



Anti-Mouse Tgfbr2 Antibody (C-term) at 1:1000 dilution + mouse spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 67 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **Mouse Tgfbr2 Antibody (C-term) - Background**

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for TGF-beta.

#### **Mouse Tgfbr2 Antibody (C-term) - References**

Droguett, R., et al. Exp. Cell Res. 316(15):2487-2503(2010)  
Robson, A., et al. Dev. Dyn. 239(9):2435-2442(2010)  
Moreno, S.G., et al. Dev. Biol. 342(1):74-84(2010)  
Ouyang, W., et al. Immunity 32(5):642-653(2010)  
Lu, L., et al. J. Immunol. 184(8):4295-4306(2010)

#### **Mouse Tgfbr2 Antibody (C-term) - Citations**

- [Aspirin Inhibits LPS-Induced Expression of PI3K/Akt, ERK, NF-κB, CX3CL1, and MMPs in Human Bronchial Epithelial Cells.](#)