

## TGF $\beta$ Receptor II (AB1599) mouse mAb

W0400

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human;

#### Applications

- IHC; WB; IF; ELISA

#### MW

- 64 kDa (calculated)
- 80 kDa (observed)

#### Isotype

- IgG1, kappa

### Recommended Dilution Ratios

#### Application

IHC; WB; IF; ELISA

#### Dilution

IHC, 1:100-1:500 | WB, 1:500-1:2000 | IF, 1:100-1:500 | ELISA, Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

### Storage

#### Storage Conditions

Store at -20°C. Avoid freeze / thaw cycles.

#### Storage buffer

The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300.

### Basic Information

**Clonality** Monoclonal

**Clone Number** AB1599

**Immunogen** A synthetic peptide corresponding to the amino acid region 100 - 200 of the human TGF  $\beta$  Receptor II protein.

**Specificity** This antibody detects endogenous levels of TGF  $\beta$  Receptor II protein.

**Purification** Affinity purification Protein A

**Concentration** Product concentration may vary by batch. Please refer to the product COA for details.

### Target Information

**Gene name** TGF-beta receptor type-2 (TGFR-2) (EC 2. 7. 11. 30) (TGF-beta type II receptor) (Transforming growth factor-beta receptor type II) (TGF-beta receptor type II) (TbetaR-II)

**Protein Name** TGF  $\beta$  Receptor II

| Database Link | Organism | Swiss Prot. | Gene ID |
|---------------|----------|-------------|---------|
|               | Human    | P37173      | 7048    |

#### Background

This gene encodes a member of the Ser/Thr protein kinase family and the TGF $\beta$  receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008],



2200 Ringwood Ave. San Jose, CA 95131  
1 (877) 594-3616 (Toll Free), (408) 747-0185

[www.assaybiotechnology.com](http://www.assaybiotechnology.com)  
[tech@assaybiotech.com](mailto:tech@assaybiotech.com) | [order@assaybiotech.com](mailto:order@assaybiotech.com)

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