

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human TGF- $\beta$ RII and TGF- $\beta$ RIIb in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human TGF- $\beta$ RIII, recombinant mouse (rm) TGF- $\beta$ RII, or rmTGF- $\beta$ RI.    |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 176510                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human TGF- $\beta$ RII isoform 2<br>Thr23-Asp184<br>Accession # NP_001020018                                                                                                                                                |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

TGF- $\beta$  RII is a membrane-bound serine/threonine kinase. Upon ligand binding, TGF- $\beta$  RII interacts with TGF- $\beta$  RI to form the heteromeric signaling complex that transduces TGF- $\beta$  signals. A splice variant of the type II receptor, TGF- $\beta$  RIIb, containing a 25 amino acid residue insertion near the N-terminus of the mature protein has also been described.

## PRODUCT SPECIFIC NOTICES

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