Human TGF-β RII Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-241-NA

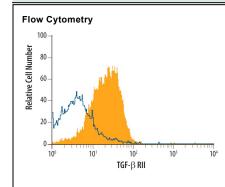
| DESCRIPTION | |
|--------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human TGF-β RII in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse (rm) TGF-β RII and less than 1% cross-reactivity with recombinant human TGF-β RIII and rmTGF-β RI is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human TGF-β RII lle24-Asp159 Accession # P37173.2 |
| Endotoxin Level | <0.01 EU per 1 µg of the antibody by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

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.

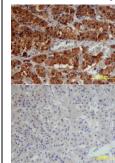
| | Recommended Concentration | Sample |
|--------------------------------------|------------------------------|--|
| Western Blot | 0.1 μg/mL | Recombinant Human TGF-β RII (Catalog # 241-R2) |
| Flow Cytometry | 1 μg/10 ⁶ cells | See Below |
| Immunohistochemistry | 5-15 μg/mL | See Below |
| Human TGF-β RII Sandwich Immunoassay | | Reagent |
| ELISA Capture | 0.2-0.8 μg/mL | Human TGF-β RII Antibody (Catalog # AF-241-NA) |
| ELISA Detection | 0.1-0.4 μg/mL | Human TGF-β RII Biotinylated Antibody (Catalog # BAF241) |
| Standard | | Recombinant Human TGF-β RII (Catalog # 241-R2) |
| Neutralization | • | lity to neutralize TGF-β1 inhibition of IL-4-dependent proliferation in the TF-1 human I line. Tsang, M. <i>et al.</i> (1995) Cytokine 7 :389. The Neutralization Dose (ND ₅₀) is typically |
| | 5-20 µg/mL in the p | presence of 0.04 ng/mL Recombinant Human TGF-β1 and 5 ng/mL Recombinant Human IL-4. |

DATA

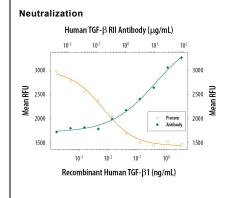


Detection of TGF- β RII in Human Lymphocytes by Flow Cytometry. Human blood-derived lymphocytes were labeled with Goat Anti-uman TGF- β RII Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-241-NA, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).

Immunohistochemistry



TGF-β RII in Human Pituitary. TGF-β RII was detected in immersion fixed paraffin-embedded sections of human pituitary using Goat Anti-Human TGF-β RII Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-241-NA) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.



TGF-β1 Inhibition of IL-4dependent Cell Proliferation and Neutralization by Human TGF-βRII Antibody Recombinant Human TGF-β1 (Catalog # 240-B) inhibits Recombinant Human IL-4 (Catalog # 204-IL) induced proliferation in the TF-1 human erythroleukemic cell line in a dose-dependent manner (orange line). Inhibition of Recombinant Human IL-4 (5 ng/mL) activity elicited by Recombinant Human TGF-β1 (0.04 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human TGF-β RII Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-241-NA). The ND₅₀ is typically 10-20 μg/mL.

Rev. 3/13/2015 Page 1 of 2





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| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C | | |
|---------------------|---|--|--|
| Shipping | | | |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. | | |

BACKGROUND

TGF β RII is a membrane bound serine/threonine kinase. Upon ligand binding, TGF β RII interacts with TGF β RII to form the heteromeric signaling complex thattransduces TGF β signals. A splice variant of the type II receptor, TGF β RIIb, containing a 25 amino acid residue insertion near the Nterminus of the mature protein has also been described.

R&D

Rev. 3/13/2015 Page 2 of 2