Human TGF-β RII Antibody

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

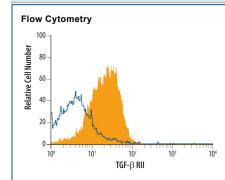
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human TGF-β RII in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse (rm) TGF-β RII and less than 1% cross-reactivity with recombinant human TGF-β RII and rmTGF-β RI is observed.		
Source	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.		

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.

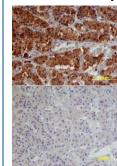
	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human TGF-8 RII (Catalog # 241-R2)
Flow Cytometry	1 μg/10 ⁶ cells	See Below
Immunohistochemistry	5-15 μg/mL	See Below
Human TGF-β RII Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 μg/mL	Human TGF-β RII Antibody (Catalog # AF-241-NA)
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	resence of 0.04 ng/mL Recombinant Human TGF-β1 and 5 ng/mL Recombinant Human IL-4

DATA

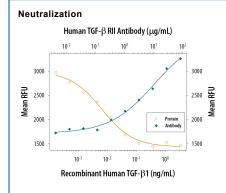


Detection of TGF-β RII in Human Lymphocytes by Flow Cytometry. Human blood-derived lymphocytes were labeled with Goat Anti-uman TGF-β RII Antigen Affinity-purified Polyciologies and Antibody (Catalog # AF-241-NA, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by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

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PREPARATION AND S	STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
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.

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