

Polyclonal Anti-human TGF- β RII-Phycoerythrin

Catalog Number: FAB2411P

Lot Number: ABDG02

100 Tests

Reagents Provided

Phycoerythrin (PE)-conjugated goat polyclonal anti-human

TGF- β RII: Supplied as 25 μ g of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Isotype: goat IgG

Reagents Not Provided

- Flow Cytometry Staining Buffer (Catalog # FC001) or other BSA-supplemented saline buffer.

Storage

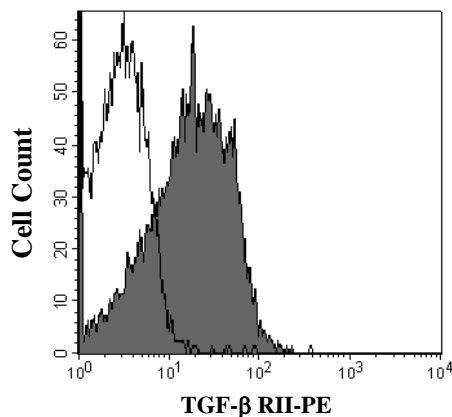
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing TGF- β RII within a population and qualitatively determine the density of TGF- β RII on cell surfaces by flow cytometry.

Product Description

Produced in goats immunized with purified, NS0 derived, recombinant human transforming growth factor beta soluble receptor type II (rhTGF- β sRII). TGF- β RII specific IgG was purified by TGF- β RII affinity chromatography. The purified antibody was then conjugated to PE fluorochrome. Cell surface expression of TGF- β RII is determined by flow cytometry using 488 nm wavelength excitation and monitoring emitted fluorescence with a detector optimized to collect peak emissions at 565 - 605 nm.



Human lymphocytes were stained with PE-conjugated anti-human TGF- β RII (Catalog # FAB2411P, filled histogram) or isotype control (Catalog # IC108P, open histogram).

Background Information

TGF- β RII is a membrane-bound serine/threonine kinase. Upon ligand binding, TGF- β RII interacts with TGF- β RI to form the heteromeric signaling complex that transduces TGF- β signals. A splice variant of the type II receptor, TGF- β RIIb, contains a 25 amino acid residue insertion near the N-terminus.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using human lymphocytes.

- Cells may be Fc-blocked with 1 μ g of human IgG/ 10^5 cells for 15 minutes at room temperature. Do not wash excess blocking IgG from this reaction.
- After blocking, 10 μ L of conjugated antibody was added to 1 - 2.5 x 10^5 cells and incubated for 30 minutes at room temperature.
- Unbound antibody was removed by washing the cells twice in Flow Cytometry Staining Buffer (Catalog # FC001). Note that whole blood requires a RBC lysis step at this point using Flow Cytometry Human Lyse Buffer (Catalog # FC002).
- The cells were resuspended in Flow Cytometry Staining Buffer for final flow cytometric analysis. As a control for this analysis, cells in a separate tube should be treated with PE-labeled goat IgG antibody. This procedure may need to be modified, depending upon cell type and final utilization. Individual users may need to titrate to determine the optimal reagent amount for their specific use.

Warning: Contains sodium azide as a preservative - sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.