

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: FAB242P 100 Tests

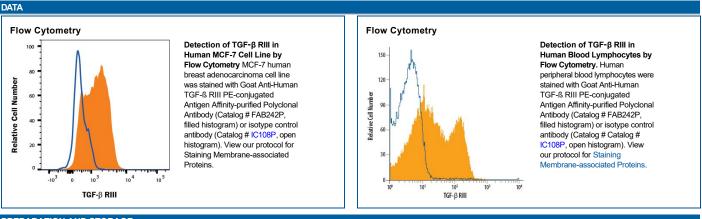
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human TGF-β RIII in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant mouse (rm) TGF-β RIII is observed, and less than 1% cross-reactivity with recombinant human (rh) TGF-β RI, rhTGF-β RII, rhTGF-β RIB, 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 RIII Gly21-Asp781 Accession # AAA67061	
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm	
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.	

*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.

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10 ⁶ cells	See Below



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

Most cell types express three sizes of receptors for TGF- β . These are designated Type I (53 kDa), Type II (70-85 kDa), and Type III (250-350 kDa). The Type I receptor is a membrane-bound serine/threonine kinase that apparently requires the presence of the Type II receptor to bind TGF- β . The Type II receptor is also a membrane-bound serine/threonine kinase that binds TGF- β 1 and TGF- β 3 with high affinity and TGF- β 2 with a much lower affinity. The Type I and Type II receptors together form a heterodimeric signaling complex that is essential for the transduction of the anti-proliferative signals of TGF- β .

The Type III receptor is a transmembrane proteoglycan with a large extracellular domain and a 43 amino acid residue cytoplasmic domain. The cytoplasmic domain of the Type III receptor lacks an obvious signaling motif and the receptor may not be involved directly in signal transduction. The Type III receptor binds TGF- β 2 with the highest affinity. Other TGF- β isoforms also bind the Type III receptor, but with lower affinities. Cellular responsiveness to TGF- β 2 appears to be dependent on the presence of the Type III receptor which can interact with the signaling receptor complex. In addition to the transmembrane Type III receptor, a soluble form of the receptor is secreted by some cell types. The physiological role of this soluble receptor remains to be determined. The recombinant TGF- β soluble receptor Type III binds the TGF- β isoforms differentially in solution and exhibits TGF- β antagonistic activities *in vitro*.

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