Technical Data Sheet

Biotin Rat Anti-Mouse, Human, Pig TGF-β1

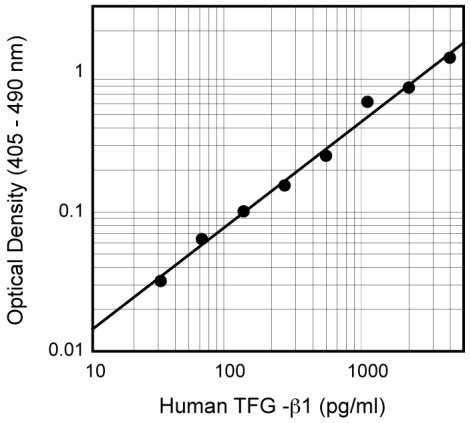
Product Information

Material Number:	**555053**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	A75-3
Immunogen:	Recombinant mouse TGF-β1
Isotype:	Rat IgG2a, κ
Reactivity:	QC Testing: Human Tested in Development: Mouse, Pig
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The A75-3 antibody reacts with mouse, pig, human TGF-β1. The immunogen used to generate this hybridoma was recombinant mouse TGF-β1.

This antibody is routinely tested by ELISA detection. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Human TGF-β1 ELISA Standard Curve

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.
Store undiluted at 4° C.

Application Notes

Application

ELISA Detection	Routinely Tested

Recommended Assay Procedure:

ELISA Detection: For a sandwich ELISA to measure mouse, human, or pig TGF-β1 protein levels, the biotinylated monoclonal anti-mouse, human, or pig TGF-β1 antibody A75-3 (Cat. No. 555053) can be used as detector in conjunction with the purified A75-2 antibody (Cat. No. 555052) as the capture antibody, and TGF-β1 derived from human as the standard. The biotinylated A75-3 antibody should be titrated from 0.5 - 2.0 µg/ml to determine the optimal concentration for ELISA detection. To obtain standard curves, doubling dilution of TGF-β1 standard ranging from ~4000 to 30 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please see Chapter 7 on ELISA in the Techniques for Immune Function Analysis Application Handbook, 1st Edition or visit the protocols section of our website, www.bdbiosciences.com.

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Note: This ELISA pair is recommended primarily for measuing cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum or plasma samples. For measuring human TGF-β1 in serum or plasma our human TGF-β1 BD OptEIA Set (Cat. No. 559119) is especially formulated and recommended.

Important: Prior to ELISA assay for TGF-β1 protein levels, samples of biological fluids must be treated by acidification. The protocol is described below:
For serum samples, first dilute serum in PBS in 1:5 (i.e., 20 µl serum + 80 µl PBS), then add 1 N HCl 1:25 to adjust to pH3 (i.e., 4 µl 1 N HCl to 100 µl diluted serum). Cell supernatants can be treated undiluted with 1 N HCl 1:25 to adjust to pH3 (i.e., 4 µl 1 N HCl to 100 µl supernatant). Incubate acidified samples for 60 minutes at 4°C (alternatively, samples can be treated at room temperature for 15 minutes). After incubation neutralize samples by treating each sample with 1 N NaOH 1:25 and test immediately or store at -70°C until testing.

Note: This ELISA pair shows no cross-reactivity with other cytokines or chemokines (e.g., human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-10, IL-11, IL-12, IL-13, IL-15, GM-CSF, IFN-γ, TNF, LT-α, MCP-1, MCP-2, MIP-1α, MIP-1β, SCF, lymphotactin, VEGF, G-CSF, NT-3, PDGF, CD23, IP-10, GRO, NAP-2, PF4).

Western blot: The purified A75-3 antibody is useful for Western blotting. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555052	Purified Rat Anti-Mouse, Human, Pig TGF-β1	0.5 mg	A75-2

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.