

TGF- β detection

on flow cytometry

A direct R-Phycoerythrin (PE) Conjugated antibody applicable for the detection of TGF- β by Flow cytometry



Special features

- Detection of intracellular TGF- β 1
- Direct conjugated antibody
- Complete intracellular detection protocol included
- Crossreacts with Human, Cow, Sheep and Pig

Research focus now possible on

- Malignant diseases
- Chronic inflammatory diseases
- Degenerative and autoimmune diseases

Detection of TGF-β by Flow Cytometry

A direct R-Phycoerythrin (PE) conjugated antibody applicable for the detection of TGF-β by flow cytometry.

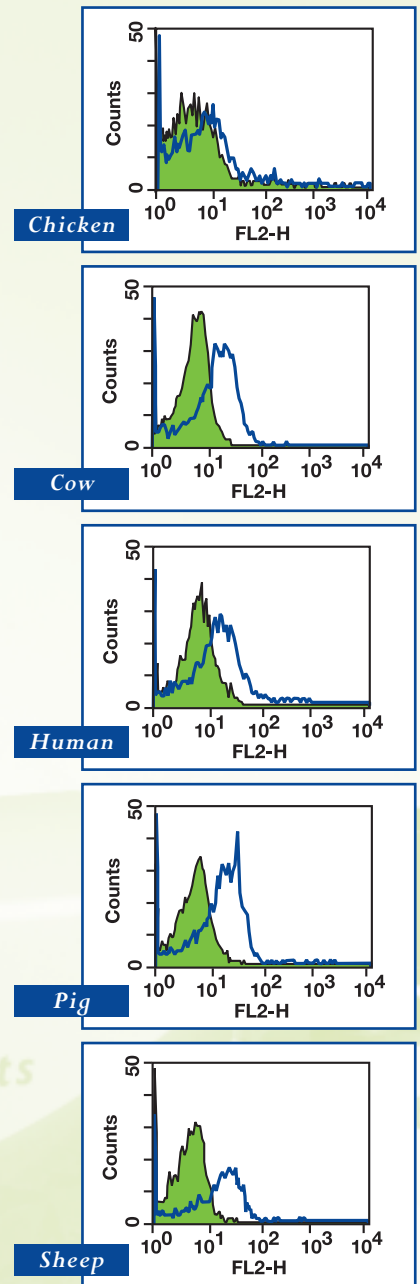
TGF-β1, a member of the cytokine family, is multifunctional and regulates many aspects of cellular processes, such as proliferation, differentiation, adhesion, and apoptosis. TGF-β1 plays an essential role in the development and homeostasis of virtually every tissue in organisms ranging from fruit flies to humans. Defects in TGF-β1 signaling pathways are linked to major disease processes, including carcinogenesis, atherogenesis, fibrosis and autoimmunity.

To understand the various biological responses mediated by TGF-β1 and its role in the control of basic cell fate decisions, a major goal is to define and characterize the responding signaling pathways and transcriptional targets. Use of different (animal) models in these studies emphasizes the availability of a 'universal' TGF-β1 marker.

Currently, TGF-β-responses were assayed using ELISA techniques. However, recognition and characterization of the different cell types that express TGF-β1 is not possible. To meet these requirements, IQ Products developed an R-PE conjugated antibody that, besides a high inter-species cross reactivity, allows for the specific flowcytometric detection of TGF-β1 in, for example, the pathogenesis of:

- malignant diseases,
- chronic inflammatory diseases,
- degenerative and autoimmune diseases

*Detection of TGF-β expression patterns in different organisms using TGF-β-PE (IQP-169R) in combination with Cytodetect™ Basic kit (IQP-367). Stimulated cells, dotplot. Used gate control is CD45-FITC (IQP-124F); Isotype control IgG1-FITC (IQP-191F).
Human (29% positive);
Cow (57% positive);
Sheep (66% positive);
Pig (60% positive);
Chicken (2% positive).
In all cases - Isotype IgG1-PE (IQP-191R) 1% positive.*



ORDERING INFORMATION

Specificity	Clone	Composition	Cell expression	Format	Purified	R-PE
TGF-β1	TB21	Mo IgG1	Many cell types including T-cells and monocytes	50 tests	IQP-169P	IQP-169R

Product	Description	Format	Product Code
IQ Starfiqs	Ready-to-use solution for Intracellular staining, fixation and permeabilization	50 tests	IQP-200

Cytodetect™ Basic kit	Ready-to-use solution for Intracellular staining, fixation and permeabilization	50 tests	IQP-367
Cytodetect™ kit	As the Basic kit - plus two cytokines of choice	50 tests	IQP-366

REFERENCE

Theo A. Niewold PhD.
Animal Sciences Group, Division of Animal Resources Development Research group Animal Physiology and Health, Lelystad, The Netherlands
(www.asg.wur.nl).

CE IQ Products' quality system complies with the NEN-EN-ISO 13485. The Certificate has been awarded by TNO Certification Medical, Leiden.

'YES, I AM INTERESTED IN DETECTION OF TGF-β1 USING FLOWCYTOMETRY' - fax : +31 (0)50 57 57 002

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