www.innocyto.com

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618
Email: info@innocyto.com
Phone: 1-949-418-7543

iF488 Anti-human/mouse T-bet Antibody

Catalog Number:	111505, 111506
Size:	25 tests, 100 tests
Target Name:	T-bet, T box 21, T-box expressed in T cells
Regulatory Status:	RUO

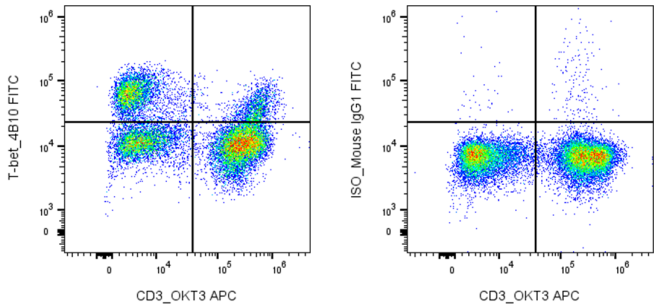
PRODUCT DETAILS

Clone:	TBX21M1
Application:	Intracellular Flow Cytometry
Reactivity:	Human, Mouse
Format:	iF488
Isotype:	Mouse IgG1
Antibody Type:	Monoclonal
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA
Protein Concentration:	Supplied at a lot-specific concentration.
Storage&Handling:	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Recommended Usage:	For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.
Excitation Laser:	Blue Laser (488 nm)
Isotype Control:	301409

BACKGROUND INFORMATION

T-bet (TBX21) is a T-box transcription factor that plays a central role in the differentiation and function of Th1 $CD4^+$ T cells in both humans and mice. Its expression is induced by IFN-γ and it directly regulates the transcription of IFN-γ, IL-12 receptor β, and IL-2 through modulation of chromatin accessibility. Loss of T-bet impairs Th1 lineage commitment, while ectopic expression promotes Th1 polarization. Beyond T cells, T-bet also contributes to B cell class-switch recombination. Due to its conserved function across species, T-bet is a key regulator of cell-mediated immunity and inflammatory responses.

PRODUCT DATA



Human peripheral blood lymphocytes were stained with APC Anti-human CD3 clone OKT3 and intracellular stained with either iF488 Anti-human/mouse T-bet antibody clone TBX21M1 (left panel) or an isotype control (right panel)

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