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InnoCyto Inc.

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iF488 Anti-human/mouse T-bet Antibody

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

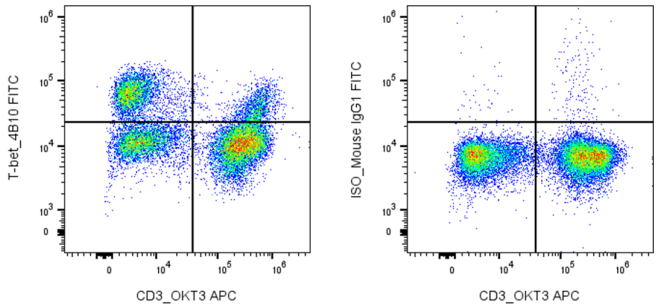
PRODUCT DETAILS

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.
Excitation Laser:	Blue Laser (488 nm)
Isotype Control:	301409
Recommended usage:	For flow cytometric staining, it is recommended to use less than 0.5 µg 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. iF488 has an excitation max at 491 nm and an emission max at 516 nm.
GeneID:	30009
RRID:	AB_3758953

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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