

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects a synthetic peptide specific for mouse T-bet around amino acid 20 in Direct ELISA.
Source	Monoclonal Rat IgG _{2B} Clone # 1087415
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Synthetic Peptide Accession # Q9JKD8
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

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

T-box transcription factor TBX21, also known as T-bet, is a 58kDa T-box gene which encodes transcription factors involved in the regulation of developmental processes. TBX21 is a Th1 cell-specific transcription that controls the expression of interferon-gamma. TBX21 also has an important role in many cells of the adaptive and innate immune system and is also expressed in dendritic cells, natural killer cells, natural killer T cells and innate lymphoid cells. T-bet contributes to the maintenance of mucosal homeostasis and mucosal immune response. Mice lacking adaptive immune cells and T-bet developed disease similar to human ulcerative colitis.

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