

## Product datasheet for **TA320469**

### **TBX21 Mouse Monoclonal Antibody [Clone ID: eBio39D (39D, 3-9D)]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	eBio39D (39D, 3-9D)
Applications:	WB
Recommended Dilution:	IP, WB
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	T-box 21
Database Link:	<a href="#">NP_037483</a> <a href="#">Entrez Gene 57765 Mouse</a> <a href="#">Entrez Gene 303496 Rat</a> <a href="#">Entrez Gene 30009 Human</a> <a href="#">Q9UL17</a>

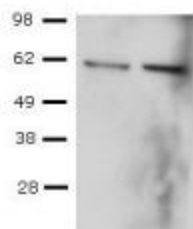
**Background:** The eBio39D monoclonal antibody reacts with mouse, rat and human T-bet. T-bet is a Th1-specific T-box transcription factor critical to the development of the Th1 CD4+ T cell lineage. This is known based on the observations that T-Bet deficient mice have impaired Th1 cell development, and that ectopic expression of T-Bet results in development skewed to the Th1 lineage. T-Bet expression is induced by the Th1 cytokine IFN- $\gamma$ , and T-Bet also regulates the expression of IFN- $\gamma$ , likely, at least in part, through the modification of DNA accessibility and histone remodeling. In addition to IFN- $\gamma$ , T-Bet is also known to regulate the expression of IL-12R $\beta$  and IL-2. Moreover, T-Bet plays a role in class-switch recombination in B-cells.

**Synonyms:** T-bet; T-PET; TBET; TBLYM

**Protein Families:** Druggable Genome, Transcription Factors



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**Product images:**

CD4+ T cells were sorted from mouse splenocytes, then activated with Anti-Mouse CD3 and Anti-Mouse CD28, followed by culture in Th1-polarizing conditions, and re-stimulation with PMA and Ionomycin. Lysates from control (left) or PMA and Ionomycin-re-stimulated (right) cells were probed with Anti-T-bet Purified at 2 ug/ml, and revealed with Anti-Mouse IgG HRP.