

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BATF3 in ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 841702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human BATF3 Met1-Arg127 Accession # Q9NR55
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

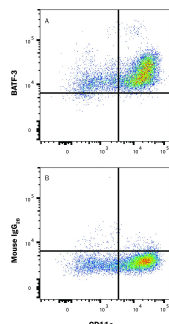
APPLICATIONS

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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	5 µL/10 ⁶ cells	See Below

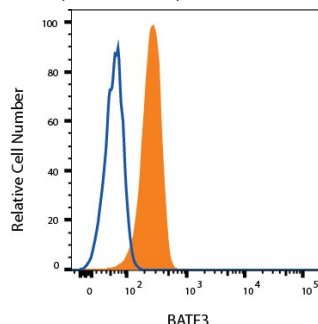
DATA

Intracellular Staining by Flow Cytometry



Detection of BATF3 in Human PBMC Monocytes by Flow Cytometry. Human peripheral blood mononuclear cell (PBMC) monocytes were stained with Mouse Anti-Human CD11c APC-conjugated Monoclonal Antibody (Catalog # [FAB1777A](#)) and either (A) Mouse Anti-Human BATF3 Alexa Fluor® 488-conjugated Antigen Affinity-purified Monoclonal Antibody (Catalog # IC7437G) or (B) Mouse IgG2BAlexa Fluor 488 Isotype Control (Catalog # [IC0041G](#)). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # [FC004](#)) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # [FC005](#)). View our protocol for [Staining Intracellular Molecules](#).

Flow (Intracellular)



Detection of BATF3 in Jurkat cells by Flow Cytometry Jurkat cells were stained with Mouse Anti-Human BATF3 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC7437G, filled histogram) or isotype control antibody (Catalog # [IC0041G](#), open histogram). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # [FC012](#)). View our protocol for [Staining Intracellular Molecules](#).

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

BATF3 (Basic leucine zipper transcriptional factor ATF-like 3; also p21SNFT) is a 20 kDa nuclear member of the bZIP family of proteins. It is expressed in Th1 cells and conventional dendritic cells (CD11c⁺), and serves to downregulate AP-1 mediated transcription. BATF3 accomplishes this by heterodimerizing with Jun and binding to AP-1 consensus binding sites, thus precluding a Jun/Fos interaction with gene activation. Human BATF3 is 127 amino acids (aa) in length. It contains one DNA binding motif (aa 41-59) with an adjacent leucine-zipper (aa 63-84), but lacks a transactivation domain. Full-length human BATF3 (aa 1-127) shares 80% aa sequence identity with mouse BATF3.

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