**Blimp-1 (3H2E8): sc-66015**

**BACKGROUND**

The development and differentiation of plasma cells, which are terminally differentiated B-cells, are induced by Blimp-1. Blimp-1 is a transcriptional repressor that localizes to the nucleus and is considered a master regulator of terminal B-cell development. Alone, Blimp-1 is sufficient to trigger terminal B-cell differentiation. Blimp-1 upregulates the expression of Syndecan-1 and J chain, represses IFN-γ gene transcription and associates with HDAC to recruit it to DNA, thereby repressing c-Myc. Blimp-1 is expressed during the late stages of B-cell differentiation in immunoglobulin-secreting plasma cells, as well as in long-lived, bone marrow plasma cells. The expression of Blimp-1 defines a checkpoint beyond which fully activated B cells proceed to the plasma cell stage, whereas immature and partially activated cells are eliminated.

**CHROMOSOMATIC LOCATION**

Genetic locus: PRDM1 (human) mapping to 6q21; Prdm1 (mouse) mapping to 10 B2.

**SOURCE**

Blimp-1 (3H2E8) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 199-409 of Blimp-1 of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blimp-1 (3H2E8) is available conjugated to agarose (sc-66015 AC), fluorescein (sc-66015 FITC), Alexa Fluor® 488 (sc-66015 AF488), Alexa Fluor® 546 (sc-66015 AF546), Alexa Fluor® 594 (sc-66015 AF594) or Alexa Fluor® 647 (sc-66015 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-66015 AF680) or Alexa Fluor® 790 (sc-66015 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Blimp-1 (3H2E8) is recommended for detection of Blimp-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Blimp-1 siRNA (h): sc-37714, Blimp-1 siRNA (m): sc-37715, Blimp-1 shRNA Plasmid (h); sc-37714-SH, Blimp-1 shRNA Plasmid (m): sc-37715-SH, Blimp-1 shRNA (h) Lentiviral Particles: sc-37714-V and Blimp-1 shRNA (m) Lentiviral Particles: sc-37715-V.

Molecular Weight of Blimp-1: 90 kDa.


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

![Blimp-1](image)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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