

# GMEB-2 (H-107): sc-98399

## BACKGROUND

GMEB-2 (glucocorticoid modulatory element binding protein 2), also known as PIF79 (parvovirus initiation factor p79) or P79PIF, is a DNA-binding protein that plays a crucial role modulating transcription upon activation by steroid hormones. GMEB-2 is ubiquitously expressed with preferential expression in developmentally important tissues, such as testis, bone marrow, placenta and fetal tissues. It localizes to the nucleus and cytoplasm and contains a SAND domain near its N-terminus and a C-terminal coiled coil structure. GMEB-2 functions as a homodimer or as a heterodimer with GMEB-1. The formed complex specifically binds to glucocorticoid modulatory elements (GME) in the promoter region of target genes and recruits the histone acetylase CREB binding protein (CBP) during glucocorticoid signaling. This acts to increase sensitivity to low concentrations of glucocorticoids. In addition, GMEB-2 functions as an auxiliary factor required for parvovirus replication.

## CHROMOSOMAL LOCATION

Genetic locus: GMEB2 (human) mapping to 20q13.33; Gmeb2 (mouse) mapping to 2 H4.

## SOURCE

GMEB-2 (H-107) is a rabbit polyclonal antibody raised against amino acids 361-465 mapping near the C-terminus of GMEB-2 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98399 X, 200 µg/0.1 ml.

## RESEARCH USE

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

## APPLICATIONS

GMEB-2 (H-107) is recommended for detection of GMEB-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with GMEB-1.

GMEB-2 (H-107) is also recommended for detection of GMEB-2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for GMEB-2 siRNA (h): sc-75156, GMEB-2 siRNA (m): sc-145645, GMEB-2 shRNA Plasmid (h): sc-75156-SH, GMEB-2 shRNA Plasmid (m): sc-145645-SH, GMEB-2 shRNA (h) Lentiviral Particles: sc-75156-V and GMEB-2 shRNA (m) Lentiviral Particles: sc-145645-V.

GMEB-2 (H-107) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

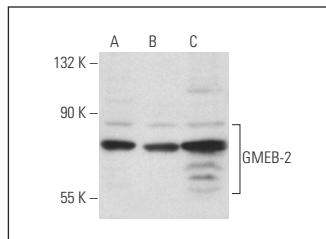
Molecular Weight of GMEB-2: 79 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Jurkat nuclear extract: sc-2132 or K-562 nuclear extract: sc-2130.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



GMEB-2 (H-107): sc-98399. Western blot analysis of GMEB-2 expression in K-562 (A), HeLa (B) and Jurkat (C) nuclear extracts.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **GMEB-2 (364C1a): sc-81093**, our highly recommended monoclonal alternative to GMEB-2 (H-107).