NFATc4 (B-2): sc-271597

**BACKGROUND**

NFATc4 (nuclear factor of activated T cells, cytoplasmic, calcineurin-dependent 4) is a member of the nuclear factors of activated T cells DNA-binding transcription complex that influences cytokine gene expression, cardiac hypertrophy and adipocyte differentiation. This complex consists of at least two components: a cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation and an inducible nuclear component. Other members of this family participate in the formation of this complex. NFATc4 plays a role in the inducible expression of cytokine genes in T cells, including the induction of IL-2 and IL-4.

**REFERENCES**


**APPLICATIONS**

NFATc4 (B-2) is recommended for detection of NFATc4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

**DATA**

**CHROMOSOMAL LOCATION**

Genetic locus: NFATC4 (human) mapping to 14q12; Nfatc4 (mouse) mapping to 14 C3.

**SOURCE**

NFATc4 (B-2) is a mouse monoclonal antibody raised against amino acids 125-198 of NFATc4 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a, kappa light chain 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-271597 X, 200 µg/0.1 ml.

NFATc4 (B-2) is available conjugated to agarose (sc-271597 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271597 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-271597 PE), fluorescein (sc-271597 FITC), Alexa Fluor® 488 (sc-271597 AF488), Alexa Fluor® 546 (sc-271597 AF546), Alexa Fluor® 594 (sc-271597 AF594) or Alexa Fluor® 647 (sc-271597 AF647), 200 µg/ml, for WB (RGB), IF, (HCIP) and FCM; and to either Alexa Fluor® 680 (sc-271597 AF680) or Alexa Fluor® 790 (sc-271597 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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