

Cyclosporin A (H4 1.3): sc-69888

BACKGROUND

Cyclosporin A, also known as CsA, is a compound that is isolated from the fungus *Tolypocladium inflatum*. Discovery of Cyclosporin A in 1971 marked the beginning of a new era in immunopharmacology. Cyclosporin A was the first immunosuppressive drug that enabled selective immunoregulation of T cells without excessive toxicity. Cyclosporin A is widely used in organ transplant surgery to reduce the risk of organ rejection. Specifically, Cyclosporin A blocks the activity of calcineurin, thus preventing the transcription of IL-2 and reducing the activity of the immune system. In addition, Cyclosporin A inhibits the opening of permeability-transition pores within the mitochondrion, allowing it to function as a neuroprotective agent that can reduce the amount of damage associated with head trauma and neurodegenerative diseases.

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SOURCE

Cyclosporin A (H4 1.3) is a mouse monoclonal antibody raised against BSA-conjugated Cyclosporine A, a cyclic undecapeptide of fungal origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Cyclosporin A (H4 1.3) is available conjugated to agarose (sc-69888 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-69888 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-69888 PE), fluorescein (sc-69888 FITC), Alexa Fluor® 488 (sc-69888 AF488), Alexa Fluor® 546 (sc-69888 AF546), Alexa Fluor® 594 (sc-69888 AF594) or Alexa Fluor® 647 (sc-69888 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-69888 AF680) or Alexa Fluor® 790 (sc-69888 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Cyclosporin A (H4 1.3) is recommended for detection of Cyclosporine A of fungal origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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