SANTA CRUZ BIOTECHNOLOGY, INC.

Cortisol (4k4): sc-70875

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Cortisol is the most potent glucocorticoid produced by the human adrenal cortex. It is synthesized from cholesterol and its production is stimulated by pituitary adrenocorticotropic hormone (ACTH), which is regulated by corticotropin releasing factor (CRF). ACTH and CRF secretions are inhibited by high Cortisol levels in a negative feedback loop. In plasma, the majority of Cortisol is bound with high affinity to corticosteroid binding globulin (CBG) also referred to as transcotin. Cortisol acts through specific intracellular receptors. It is involved in the human response to stress by increasing blood pressure and blood sugar levels, while suppressing the immune system.

REFERENCES

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SOURCE

Cortisol (4k4) is a mouse monoclonal antibody raised against full length human Cortisol conjugated to BSA.

PRODUCT

Each vial contains 200 µg IgG_3 in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Cortisol (4k4) is recommended for detection of Cortisol of human 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.