

## Product datasheet for **AM00684PU-N**

### Cortisol Mouse Monoclonal Antibody [Clone ID: CORT-2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	CORT-2
Applications:	ELISA
Recommended Dilution:	Can be used in competitive assay of Cortisol.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG3
Clonality:	Monoclonal
Immunogen:	Cortisol-3 (CMO) -BSA. Hybridization of Sp2/0 myeloma cells with spleen cells from Balb/c mice.
Specificity:	This antibody recognizes Cortisol-BSA conjugate and free Cortisol. There is no cross-reactivity with BSA. <u>Cross-reactivity:</u> (50% displacement of cortisol-3-125-Iodine) Cortisol: 100% Corticosterone: 49% 17-Hydroxyprogesterone: 0%
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction (>95% pure).
Concentration:	lot specific
Purification:	Protein G Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.



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**Background:**

Cortisol is the most potent glucocorticoid produced by the human adrenal. It is synthesized from cholesterol and its production is stimulated by pituitary adrenocorticotrophic 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 a majority of cortisol is bound with high affinity to corticosteroid binding globulin (CBG or transcotin). Cortisol acts through specific intracellular receptors and affects numerous physiologic systems including immune function, glucose counter regulation, vascular tone, and bone metabolism.

**Synonyms:**

Hydrocortisone