

## Product datasheet for **AM01098PU-N**

### Cortisol Mouse Monoclonal Antibody [Clone ID: BGN/C53]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | BGN/C53   |
| Applications:         | ELISA   |
| Recommended Dilution: | <b>ELISA:</b> 1/500-1/5000.   |
| Reactivity:           | Human   |
| Host:                 | Mouse   |
| Isotype:              | IgG3  |
| Clonality:            | Monoclonal  |
| Immunogen:            | Synthetic Corticosterone conjugated to Bovine Serum Albumin.  |
| Specificity:          | This antibody recognises the glucocorticoid hormone cortisol, produced in the adrenal cortex and involved in responses to stress.<br><b>Cross reactivity:</b><br>Cortisol: 100%<br>Corticosterone: 50%<br>Prednisolone: 15%<br>11-Desoxycortisol: 0.1%<br>Cortisone: < 0.1%<br>17-a-OH Progesterone: < 0.1% |
| Formulation:          | PBS containing 0.09% Sodium Azide as preservative.<br>State: Purified<br>State: Liquid purified IgG fraction.   |
| Concentration:        | lot specific  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Storage in frost-free freezers is not recommended.<br>Avoid repeated freezing and thawing.   |
| 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 transcortin). Cortisol acts through specific intracellular receptors and affects numerous physiologic systems including immune function, glucose counter regulation, vascular tone, and bone metabolism.

**Synonyms:**

Hydrocortisone

**Note:**

Cortisol CAS Number: 50-23-7