

Rat Adrenocorticotrophic Hormone (ACTH) CLIA Kit | ACTH clia kit

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CATALOG # AAA188433	REACTIVITY Rat	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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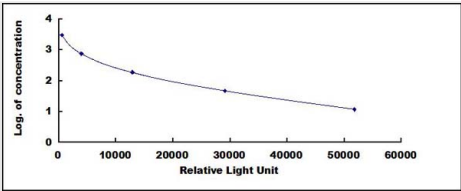
PRODUCT SYNONYMS

Adrenocorticotrophic Hormone (ACTH); Rat Adrenocorticotrophic Hormone (ACTH) CLIA Kit; Adrenocorticotrophic Hormone; Corticotropin; Adrenocorticotropin; ACTH clia kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Adrenocorticotrophic Hormone (ACTH). No significant cross-reactivity or interference between Adrenocorticotrophic Hormone (ACTH) and analogues was observed.
Sequence Length	39
Assay Type	Competitive Inhibition
Samples	Serum, plasma and other biological fluids
Detection Range	11.72-3000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 4.52pg/mL
Applicable Applications for ACTH clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Adrenocorticotrophic Hormone (ACTH) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Adrenocorticotrophic Hormone (ACTH) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to Adrenocorticotrophic Hormone (ACTH). A competitive inhibition reaction is launched between biotin labeled Adrenocorticotrophic Hormone (ACTH) and unlabeled Adrenocorticotrophic Hormone (ACTH) (Standards or samples) with the pre-coated antibody specific to Adrenocorticotrophic Hormone (ACTH). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Adrenocorticotrophic Hormone (ACTH) in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the Adrenocorticotrophic Hormone (ACTH) level in the sample or standard.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	191659
NCBI GeneID	18976
NCBI Official Full Name	adrenocorticotrophic hormone, partial
NCBI Official Synonym Full Names	pro-opiomelanocortin-alpha
NCBI Official Symbol	Pomc
NCBI Official Synonym Symbols	BE; Npp; ACTH; Clip; Pomc1; Pomc-1; Beta-LPH; alphaMSH; beta-MSH; Gamma-LPH; alpha-MSH; gamma-MSH
NCBI Protein Information	pro-opiomelanocortin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.