

Rat Beta-Endorphin (bEP) CLIA Kit | bEP clia kit

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CATALOG # AAA188428	REACTIVITY Rat	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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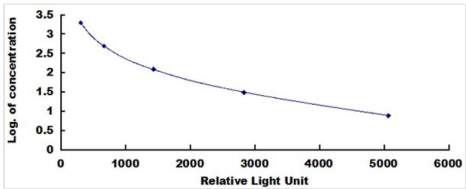
PRODUCT SYNONYMS

Beta-Endorphin (bEP); Rat Beta-Endorphin (bEP) CLIA Kit; Beta-Endorphin; b-EP; bEP clia kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Beta-Endorphin (bEP). No significant cross-reactivity or interference between Beta-Endorphin (bEP) and analogues was observed.
Sequence Length	31
Assay Type	Competitive Inhibition
Samples	Serum, plasma, tissue homogenates, cell lysates, cerebrospinal fluid, cell culture supernates and other biological fluids
Detection Range	7.81-2000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 3.12pg/mL
Applicable Applications for bEP clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Beta-Endorphin (bEP) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Beta-Endorphin (bEP) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ 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 Beta-Endorphin (bEP). A competitive inhibition reaction is launched between biotin labeled Beta-Endorphin (bEP) and unlabeled Beta-Endorphin (bEP) (Standards or samples) with the pre-coated antibody specific to Beta-Endorphin (bEP). 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 Beta-Endorphin (bEP) 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 Beta-Endorphin (bEP) 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 #	119332
UniProt Accession #	P01203
NCBI Official Full Name	Beta-endorphin
UniProt Protein Name	Beta-endorphin
UniProt Gene Name	POMC

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.

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Online datasheet: <https://stage.aaabiotech.com/rat-clia-kits/beta-endorphin-bep/188428>