



#### ORDERING INFORMATION

**Catalog Number:** AF3087

**Lot Number:** WKR01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse CRHBP

**Immunogen:** NS0-derived rmCRHBP

**Ig Type:** goat IgG

**Applications:** Western blot  
Immunohistochemistry  
Direct ELISA

## *Anti-mouse CRHBP Antibody*

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant mouse Corticotrophin Releasing Hormone Binding Protein (rmCRHBP). Mouse CRHBP specific IgG was purified by mouse CRHBP affinity chromatography. Mouse CRHBP is a 37 kDa, monomeric CRH-binding glycoprotein that is secreted by cells of the rodent adrenal, medulla, cortical neurons and astrocytes, and prolactin positive cells of the pituitary. The mature molecule is 298 amino acids (aa) in length and contains six intrachain disulfide bonds. It binds CRH and CRH-like peptides, either serving as an antagonist for CRH binding to CRH receptor 1, or as a coreceptor for CRH binding to CRH receptor 2. Mature mouse CRHBP shares 94%, 87%, 85% and 80% aa sequence identity with rat, human, canine and bovine CRHBP, respectively.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### ***Reconstitution***

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for its ability to recognize mouse CRHBP in the applications listed below. In direct ELISAs and western blots, this antibody shows approximately 70% cross-reactivity with rhCRHBP.

### ***Applications***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse CRHBP. The detection limit for rmCRHBP is approximately 5 ng/lane under non-reducing and reducing conditions.

**Immunohistochemistry** - This antibody will detect mouse CRHBP in cells and tissues. The working dilution is 2 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse CRHBP. The detection limit for rmCRHBP is approximately 0.3 ng/well.

**Optimal dilutions should be determined by each laboratory for each application.**