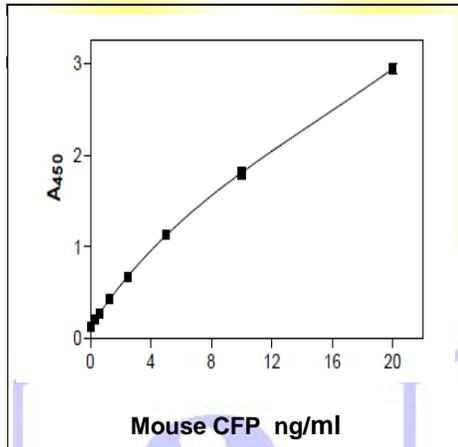


## Mouse Cardiac Fatty Acid Binding Protein (CFP) ELISA KIT Cat. # 600-310-CFP

ADI's mouse CFP ELISA is a highly sensitive sandwich assay for the detection and measurement of CFP in mouse serum, plasma or urine samples. For in vitro research use only (RUO), not for therapeutic or diagnostic use.



### ELISA Kit Features

- Anti-Mouse CFP Pre-coated, stabilized, ready-to-use 96-well strip plate, suitable for multiple runs over 6-12 months.
- Convenient lyophilized reference standard, reconstitute and make CFP working stds: 20, 10, 5, 2.5, 1.25, 0.625, 0.313 and 0 ng/ml.
- Sensitivity ~0.3 ng/ml; 100ul samples
- 80 minute, 2 incubation steps at room temp
- Contains all necessary reagents.

**This kit is for measuring mouse CFP in serum or plasma (EDTA) or urine samples. Do not use plasma (heparin).**

For in vitro research use only.

### Assay Procedure:

Allow all reagents to reach room temperature. Arrange and label required number of strips.

1. **Pipet 100 ul each of standards and samples** (diluted as required) into appropriate wells.
2. **Pipet 100 ul of anti-CFP-HRP conjugate** into each well. Mix gently and incubate at **room temperature for 60 min** on an orbital shaker.
3. **Aspirate and wash** the plate 4-5 times. Add **100 ul of TMB Substrate** solution to all wells, mix gently, and incubate at room temperature for **20 min** on an orbital shaker.
4. **Pipet 100 ul of stop solution** into each well and mix gently (blue color turns yellow). **Measure OD at A450 nm**. Calculate concentration of CFP in each sample using the Standard curve.

### General Information

The fatty-acid-binding proteins (FABPs) are a family of carrier proteins for fatty acids and other lipophilic substances such as eicosanoids and retinoids. These proteins have the task of protecting a cell's delicate lipid balance by facilitating the transfer of fatty acids between extra- and intracellular membranes. Yet they fail when faced with metabolic or inflammatory stress, turning the cytosol into an inhospitable environment with less than ideal outcomes. Several types of the 14–15 kDa FABPs are known to occur in the cytosol of mammalian cells. With antibodies raised against the cardiac-type protein from bovine heart, immunoblots indicate a more widespread distribution of the cardiac FABP (H-FABP) in subcellular fractions, such as mitochondria and nuclei. Cardiac fatty-acid-binding protein (**CFP**) in myocytes is associated with myofibrils and localized within mitochondria and nuclei. The newly found compartmentation of cardiac FABP in the heart cell must be considered when the true functions of the protein are studied.

ADI's Mouse CFP ELISA provides is a rapid, specific and sensitive assay for measuring Mouse CFP in serum or other biological fluids.

### Related ELISA kits

600-400-CTN	Dog Cardiac Troponin 1 (Tn-I) ELISA	600-430-MTN	Monkey Skeletal Muscle Troponin 1 (Tn-I) ELISA
600-440-CTN	Mouse Cardiac Tn-I ELISA kit for plasma	600-420-CTN	Monkey Cardiac Tn-I ELISA kit for serum samples
600-460-MTN	Mouse Skeletal Muscle Troponin 1 (Tn-I)	600-450-CTN	Mouse Cardiac Troponin 1 (Tn-I) ELISA Kit
600-510-MTN	Rat Skeletal Muscle Troponin 1 (Tn-I)	600-600-DMY	Dog Myoglobin ELISA Kit
600-610-HMY	Human Myoglobin ELISA Kit	600-620-MMY	Monkey Myoglobin ELISA Kit
600-630-MMY	Mouse Myoglobin ELISA Kit	600-640-PMY	Pig Myoglobin ELISA Kit
600-650-RMY	Rabbit Myoglobin ELISA Kit	600-660-RMY	Rat Myoglobin ELISA Kit
600-310-CFP-Mouse-Cardiac-FABP-CFP-ELISA-Flr	150908A		