

Human cIAP2 ELISA Instructions

CAT. No: AEH0123

CONTENT

No.	Content	Cat. No	Volume
1	CP (Coated Plate)	ER0001 CP	96 wells
2	S (Standard)	ER0001S,S1~ S7,S0	9 vials
3	DA (Detect Antibody)	ER0001 DA	6 ml/bottle
4	SH(Streptavidin-HRP)	ESH01	12 ml/bottle
5	AB (Assay Buffer 1×)	EAB01	12 ml/bottle
6	TS (TMB Substrate)	ETS01	12 ml/bottle
7	SS (Stop Solution)	ESS01	12 ml/bottle
8	WB (Wash Buffer 10×)	EWB01	50 ml/bottle
9	SF (Sealer Film)	ESF01	6 pieces

NOTE: After the kit is opened, the stabilization period of each content is 30 days, so please use the kit within 30 days after opening.

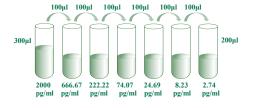
REAGENT PREPARATION

Washing Buffer (1 X) Preparation: Pour entire contents (50 ml) of the Washing Buffer Concentrate (10×) into a clean 500 ml graduated cylinder. Bring to final volume of 500 ml with glass-distilled or deionized water. Transfer to a clean wash bottle and store at 2 to 25°C.

Standard Curve Preparation: Reconstitute Human cIAP2 Standard by addition of distilled water as S. Reconstitution volume is stated on the label of the standard vial. Swirl or mix gently to insure complete and homogeneous solubilization (concentration of reconstituted standard = 20000pg/ml).

Allow the standard to reconstitute for 10-30 minutes. Mix well prior to making dilutions.

The human cIAP2 Standard EH0123S 20000 pg/ml 30 μ l + 270 μ l SPB serves as the high standard (2000 pg/ml). Pipette 200 μl of SPB into each tube. Use the high standard to produce a 1:2 dilution series. Mix each tube thoroughly before the next transfer. SPB serves as the zero standard (0 pg/ml).



ASSAY PROCEDURE

Bring all reagents and samples to room temperature before

- 1. Prepare all reagents and working standards as directed in the previous sections.
- Remove excess CP (Coated Plate) strips from the plate 2. frame, return them to the foil pouch and reseal.
- Add 50 µl of AB (Assay Buffer) to each well. 3.
- 4. Add 50 µl or 10 µl of Standard or sample per well. Ensure reagent addition is uninterrupted and completed within 15
- Add 50 µl of DA (Detect Antibody) to each well.
- 6. Cover with an SF (Sealer Film). Incubate at room temperature (18 to 25°C) for 1 hour on a micro-plate shaker set at 500 rpm.
- Aspirate each well and wash, repeating the process four times. Wash by filling each well with WB (Washing Buffer 300 µl). Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining WB (Washing Buffer) by aspirating or decanting. Invert the plate and blot it against clean paper towels.
- Add 100 µl of SH (Streptavidin-HRP) to each well.
- Cover with a new SF (Sealer Film). Incubate at room temperature (18 to 25°C) for 30 minutes on a micro-plate shaker set at 500 rpm.
- Repeat aspiration/wash as in step 7.
- Add 100 µl of TS (TMB Substrate) to each well. Incubate for 5-30 minutes at room temperature.
- Add 100 µl of SS (Stop Solution) to each well.
- 13. Determine the optical density within 30 minutes, using microplate reader set to 450 nm corrected with 570 nm or 630 nm.



TYPICAL DATA

0.0136

3.4880 0.8720 0.2180 0.0545

100.00

1000.00

pg/ml	O.D.		Average	Corrected
0.00	0.0139	0.0145	0.0142	
2.74	0.0221	0.0234	0.0228	0.0086
8.23	0.0328	0.0302	0.0315	0.0173
24.69	0.0653	0.0689	0.0671	0.0529
74.07	0.1791	0.1718	0.1755	0.1613
222.22	0.5172	0.5250	0.5211	0.5069
666.67	1.4860	1.4850	1.4855	1.4713
2000.00	3.3930	3.4200	3.4065	3.3923

Human cIAP2 Concentration (pg/ml)

SENSITIVITY

The minimum detectable dose (MDD) of human cIAP2 is typically less than 0.81 pg/ml (50 μ l of sample volume) or 1.59 pg/ml (10 μ l of sample volume).

The MDD was determined by adding two standard deviations to the mean optical density value of ten zero standard replicates and calculating the corresponding concentration.

PRECISION

- Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
- Inter-assay Precision (Precision between assays)

	Intra-assay Precision		Inter-assay Precision		recision	
Sample	S1	S2	S3	S1	S2	S3
Number	22	22	22	6	6	6
Average (pg/ml)	27.3	173.6	525.6	39.3	185.7	604.2
Standard deviation	2.1	11.6	25.5	3.1	13.1	37.2
Coefficient of variation (%)	7.9	6.7	4.9	8.0	7.1	6.2

RECOVERY

The spike recovery was evaluated by spiking 3 levels of human cIAP2 into health human serum sample. The un-spiked serum was used as blank in this experiment.

The recovery ranged from 102% to 119% with an overall mean recovery of 110%.

LINEARITY

To assess the linearity of the assay, five samples were spiked with high concentration of cIAP2 in human serum and diluted with Sample Diluent to produce samples with values within the dynamic range of the assay.

The linearity ranged from 106% to 109% with an overall mean recovery of 107%.

SAMPLE VALUES

Serum/Plasma - Thirty samples from apparently healthy volunteers were evaluated for the presence of human cIAP2 in this assay. No medical histories were available for the donors.

Sample Matrix	Sample Evaluated	Range (Pg/ml)	Detectable %	Mean of Detectable (Pg/ml)
Serum	30	n.d4.39	33.3%	1.80

n.d. = non-detectable. Samples measured below the sensitivity are considered to be non-detectable.

DISCLAIMER AND VERSION

For research use only. Not for use in clinical diagnostic procedures.

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