



ELK Biotechnology

ELK1156 IL6(Interleukin 6) ELISA Kit

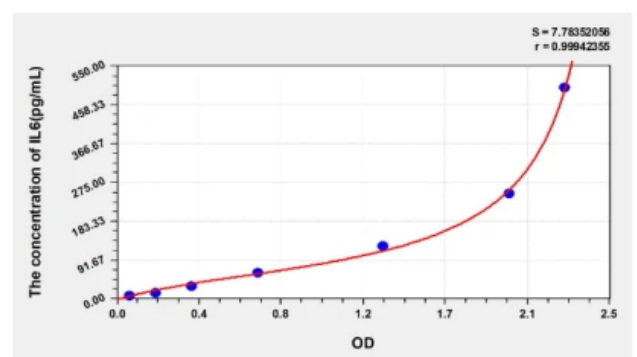


Overview

- 【Assay Type】 Sandwich
- 【Sensitivity】 3.2 pg/mL
- 【Standard】 500 pg/mL
- 【Range】 7.82-500 pg/mL
- 【Sample Type】 serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
- 【Assay Length】 3.5h
- 【Research Area】 Cytokine;Tumor immunity;Infection immunity;Cardiovascular biology;

Standard curve

Concentration (ng/mL)	OD	Corrected OD
500.00	2.328	2.260
250.00	2.045	1.977
125.00	1.412	1.344
62.50	0.780	0.712
31.25	0.444	0.376
15.63	0.262	0.194
7.82	0.132	0.064
0.00	0.068	0.000



Precision

- Intra-assay Precision (Precision within an assay): CV%<8%
Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
- Inter-assay Precision (Precision between assays): CV%<10%
Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.

Recovery

Matrix	Recovery range	Average
serum (n=5)	97-105%	101%
EDTA plasma (n=5)	87-99%	92%
Heparin plasma (n=5)	88-107%	94%

Matrices listed below were spiked with certain level of recombinant IL6 and the recovery rates were calculated by comparing the measured value to the expected amount of IL6 in samples.

Linearity

Matrix	1:2	1:4	1:8	1:16
serum(n=5)	86-93%	91-103%	87-98%	92-99%
EDTA plasma(n=5)	89-99%	83-96%	98-104%	88-101%
Heparin plasma(n=5)	85-102%	84-99%	97-101%	89-102%

The linearity of the kit was assayed by testing samples spiked with appropriate concentration of IL6 and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected.



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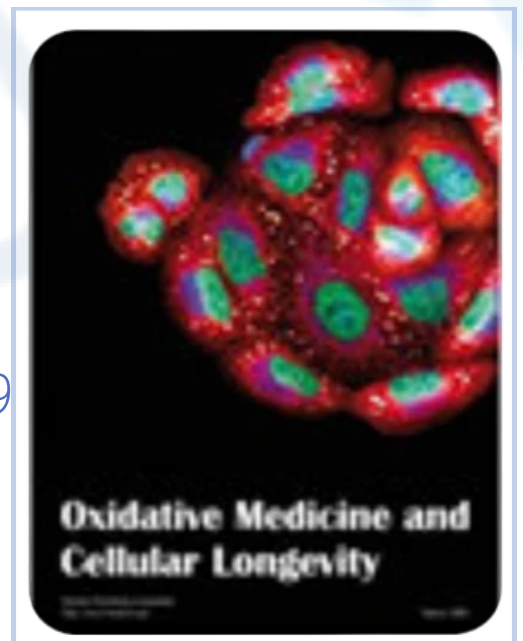
Citation

Inflammation and Oxidative Stress
in Age-Related Metabolic Disorders

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15 Oct 2022

<https://doi.org/10.1155/2022/2405972>

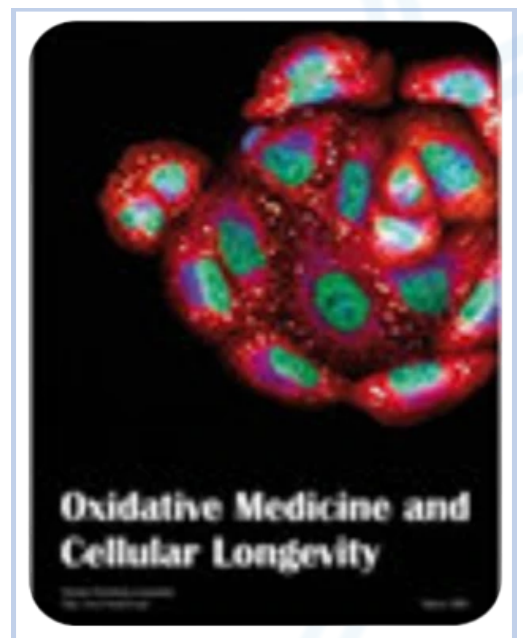


The Interplay of Oxidative Stress and
Inflammation: Mechanistic Insights and
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Biomedicine & Pharmacotherapy
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