

Certification Of Analysis

Product Name: Human C3ORF32 ELISA Kit

Catalog Number: ELI-10903h

Species Reactivity: Human (Homo sapiens)

Lot No: 190130

Exp: MAY 17, 2020

Manual Download



Introduction

Item	Standard	Test Result
Description	For the quantitative detection of Human Uncharacterized protein C3orf32 (C3orf32) concentration in serum, plasma and other biological fluids.	Conform
Identification	Sandwich	Positive
Composition	Assay plate (96 Wells) Standard (lyophilized) Sample Diluent Biotin-Conjugate (concentrate 100 x) Biotin-Conjugate Diluent Streptavidin-HRP (concentrate 100 x) Streptavidin-HRP Diluent Substrate Solution Stop Solution Wash Buffer (concentrate 25 x) Adhesive Films Instruction manual	1 2 1 × 20 mL 1 × 120 μL 1 × 20 mL 1 × 120 μL 1 × 20 mL 1 × 12 mL 1 × 10 mL 1 × 20 mL 4 1 Conform
Assay Range	31.25-2000 pg/mL	Conform

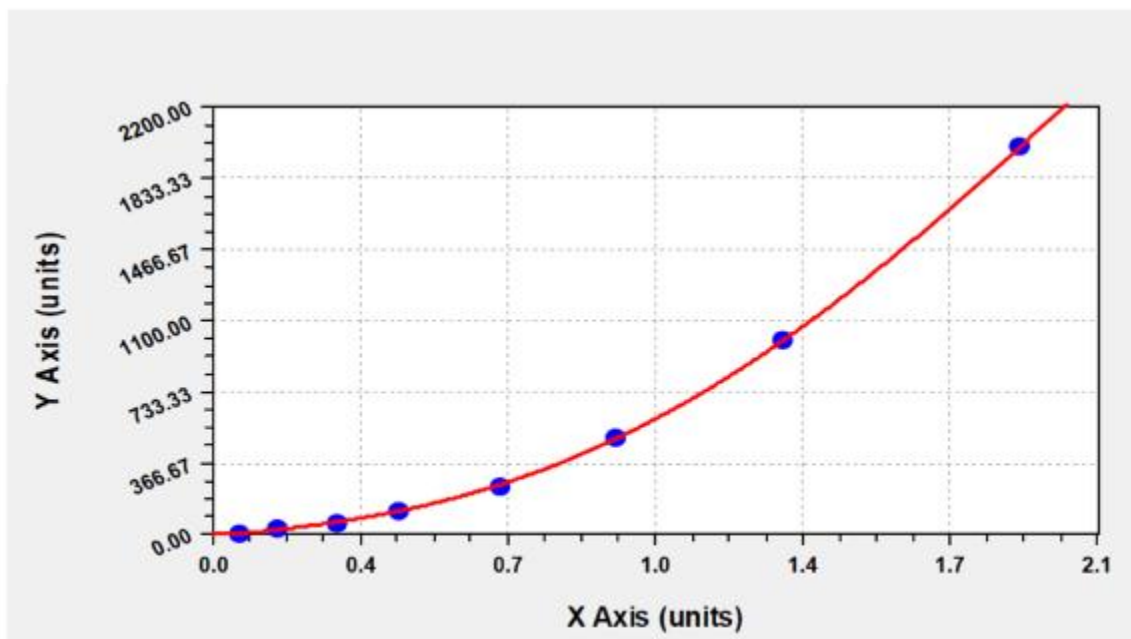
Sensitivity

The limit of detection of Human C3orf32 defined as the analyte concentration resulting in an absorbance significantly higher than that of the dilution medium (mean plus 2 standard deviations) was determined to be 15.6 pg/mL (mean of 6 independent assays).

Typical data

For convenience in result calculation, absorbance as abscissa and standard concentrations can be used as ordinate. The standard curve provided in the manual is only for reference, experimenters should draw the standard curve based on data of themselves.

pg/mL	Standard		Average
2000	1.912	1.894	1.903
1000	1.351	1.343	1.347
500	0.950	0.952	0.951
250	0.679	0.687	0.683
125	0.448	0.436	0.442
62.5	0.301	0.295	0.298
31.25	0.152	0.170	0.161
0	0.068	0.076	0.072



4th Degree Polynomial Fit: $y=a+bx+cx^2+dx^3...$

Coefficient Data:

$a = -8.16765954058E+000$

$b = 1.95290370924E+002$

$c = 7.14328094578E+001$

$d = 3.81079172570E+002$

$e = -9.52095735588E+001$

Recovery

The recovery of Human C3orf32 spiked to levels throughout the range of the assay was evaluated.

Sample Type	Number	Recovery range (%)	Average(%)
Human serum	10	90-101	96
Human plasma	10	89-97	93

Linearity

To assess the linearity of the assay, samples containing high concentrations of Human C3orf32 were serially diluted with Sample Diluent to produce samples with values within the dynamic range of the assay.

Sample Type	1: 2	1: 4	1: 8	1: 16
Human serum	90-101%	92-99%	89-100%	91-98%
Human plasma	90-98%	90-102%	90-97%	92-101%

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)

Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.
 $CV (\%) = SD/mean \times 100$

Sample	Intra-assay Precision			Inter-assay Precision		
	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean (ng/mL)	0.288	0.614	0.932	0.251	0.727	1.012
SD	0.020	0.046	0.071	0.018	0.055	0.083
CV (%)	6.9	7.2	7.6	7.2	7.6	8.2

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Approved Date: 2019.11.18

