



Mouse E3 ubiquitin-protein ligase SMURF1(SMURF1) ELISA kit

Product Code	CSB-EL021860MO
Abbreviation	SMURF1
Protein Biological Process 1	Ubiquitin
Target Name	SMAD specific E3 ubiquitin protein ligase 1
Uniprot No.	Q9CUN6
Alias	KIAA1625, E3 ubiquitin ligase SMURF1 Smad ubiquitination regulatory factor 1 Smad-specific E3 ubiquitin ligase 1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Ubl conjugation pathway
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cell Biology
Gene Names	Smurf1
Tag Info	quantitative
Protein Description	Sandwich

Description

This Mouse SMURF1 ELISA Kit was designed for the quantitative measurement of Mouse SMURF1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL .

Target Details

This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. A similar protein in Xenopus is involved in embryonic pattern formation. Alternative splicing results in multiple transcript variants encoding different isoforms. An



additional transcript variant has been identified, but its full length sequence has not been determined.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse SMURF1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	97
1:1	Range %	92-104
	Average %	92
1:2	Range %	88-95
	Average %	86
1:4	Range %	80-91
	Average %	89
1:8	Range %	83-98

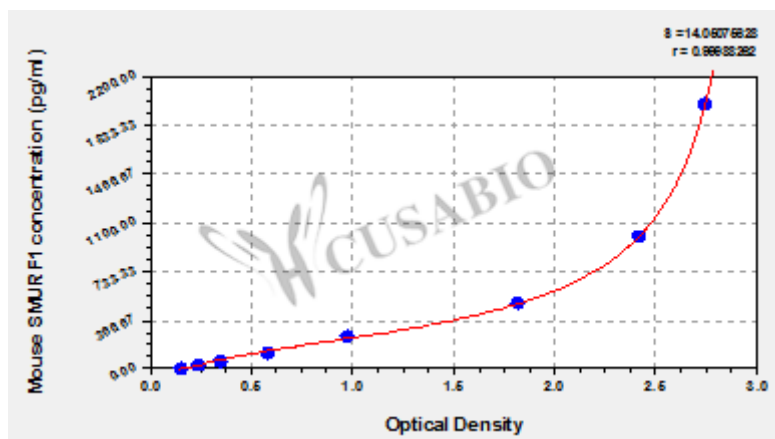
Recovery

The recovery of mouse SMURF1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	87-96
EDTA plasma (n=4)	101	94-109

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
2000	2.804	2.600	2.702	2.535
1000	2.403	2.371	2.387	2.220
500	1.747	1.850	1.799	1.632
250	0.972	0.975	0.974	0.807
125	0.594	0.581	0.588	0.421
62.5	0.370	0.347	0.359	0.192
31.25	0.256	0.245	0.251	0.084
0	0.170	0.163	0.167	?

Msds

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