



Mouse Phosphotylinosital 3 kinase,PI3K ELISA Kit

Product Code	CSB-E08419m
Abbreviation	PIK3CA
Protein Biological Process 1	Angiogenesis
Target Name	phosphoinositide-3-kinase, catalytic, alpha polypeptide
Uniprot No.	P42337
Alias	MGC142161, MGC142163, PI3K, p110-alpha, PI3-kinase p110 subunit alpha PtdIns-3-kinase p110 phosphatidylinositol 3-kinase, catalytic, 110-KD, alpha phosphatidylinositol 3-kinase, catalytic, alpha pol
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	23.5 pg/mL-1500 pg/mL
Sensitivity	5.8 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	Cancer
Gene Names	Pik3ca
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse PIK3CA ELISA Kit was designed for the quantitative measurement of Mouse PIK3CA protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 23.5 pg/mL-1500 pg/mL and the sensitivity is 5.8 pg/mL.
Target Details	Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. This protein represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers.
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 PI3K 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 %	102
1:1	Range %	95-106
	Average %	102
1:2	Range %	96-107
	Average %	87
1:4	Range %	83-92
	Average %	95
1:8	Range %	89-99

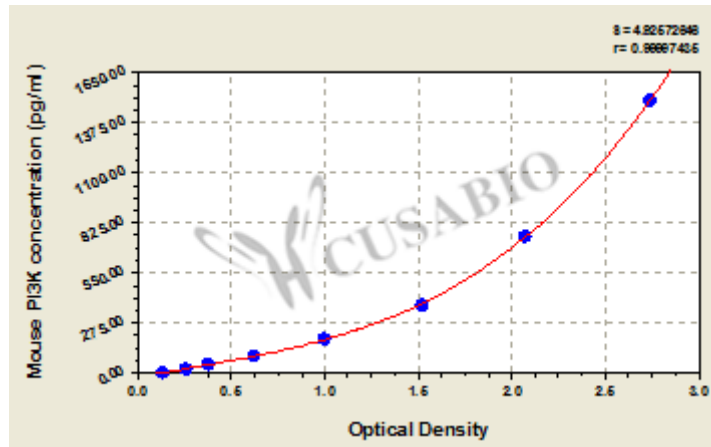
Recovery

The recovery of mouse PI3K 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)	97	92-101
EDTA plasma (n=4)	102	93-105

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
1500	2.725	2.812	2.769	2.625
750	2.020	2.165	2.093	1.949
375	1.514	1.565	1.540	1.396
187.5	1.014	1.023	1.019	0.875
94	0.614	0.665	0.640	0.496
47	0.384	0.392	0.388	0.244
23.5	0.271	0.277	0.274	0.130
0	0.143	0.144	0.144	?

Msds

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