abcam

Product datasheet

Mouse IgG1 ELISA Kit ab133045

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Overview

Product name

Detection method

Precision

Mouse lgG1 ELISA Kit

Colorimetric

Intra-assay Sample Mean SD CV% n 49.9ng/ml 1.2% Low 19 Medium 19 99.6ng/ml 2.7% High 19 160.4ng/ml 3.6%

Inter-assay

Sample	n	Mean	SD	CV%
Low	16	48.5ng/ml		3.1%
Medium	16	98.3ng/ml		4.4%
High	16	148.7ng/ml		8.1%

Sample type

Assay type

Sensitivity

Range

Recovery

Cell culture supernatant, Serum

Sandwich (quantitative)

0.116 ng/ml

7.81 ng/ml - 250 ng/ml

		,	
Sample type	Average %	Range	
Serum	102.8	% - %	
Tissue Culture Media	105.3	% - %	

Sample specific recovery

Assay duration	Multiple steps stan	idard assay		
Species reactivity	Reacts with: Mou	ISE		
Product overview	Abcam's Mouse Ig	JG ₁ <i>in vitro</i> ELISA (Enzym	ne-Linked Immunosorbent Assay) kit is designed for	
	the accurate quant	itative measurement of M	ouse lgG ₁ in Culture supernatants and Serum.	
	lgG ₁ specific antib	ody has been precoated	onto 96-well plates. Standards and test samples are	
	added to the wells and along with an HRP-conjugated IgG ₁ detection antibody and the microplate			
			r the removal of unbound proteins by washing, TMB is	
		•	n. TMB is catalyzed by HRP to produce a colored	
		•	p solution. The density of coloration is directly	
	proportional to the	lgG ₁ amount of sample c	aptured in plate.	
Notes	lgG is divided into	four subclasses; lgG1, lg	G2, lgG3, and lgG4. lgG ₁ is the most abundant	
	immunoglobulin fo	und in the blood. It is a gly	coprotein which consists of two identical heavy chains	
	(50 kDa each) and	I two identical light chains	(25 kDa each), to give a combined mass of	
	approximately 150 kDa. The chains are held in place by covalent disulfide bonds. Each light chain			
	contains two immunoglobulin (lg) domains, while the heavy chains contain four lg domains each. In			
	the middle of each heavy chain is a relative varying portion called the "hinge region" which is unique to each lgG. This region allows for molecular flexibility and sets lgG ₁ apart from its lgG			
		C C		
	counterparts. IgG1 properties and functions include neutralization, opsonization, activation of the complement system, diffusion into extravascular sites and crossing the placenta.			
	Cross Reactivity			
	Compound	Cross Reactivity		

Rat lgG1	0.9%
Mouse IgG2b	0.21
Human lgG1	<0.01%
Mouse IgG2a	<0.01%
Mouse IgG3	<0.01%
Mouse IgM	<0.01%

Recommended dilution of serum is 1:20,000

Platform

Microplate

Properties

Storage instructions

Please refer to protocols.

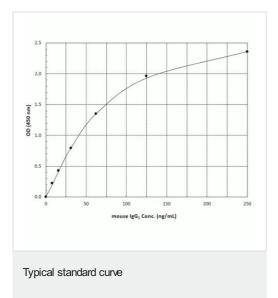
Components	Identifier	1 x 96 tests
20X Wash Buffer Concentrate		1 x 100ml

Components	Identifier	1 x 96 tests
Assay Buffer 13 Concentrate		1 x 50ml
Goat anti-mouse IgG Microplate (12 x 8 wells)		1 unit
Mouse IgG ₁ Conjugate Concentrate		1 x 0.07ml
Mouse lgG ₁ Standard		1 x 0.25ml
Mouse IgG1 Conjugate Diluent	Blue	1 x 6ml
Plate Sealer		2 units
Stop Solution 2		1 x 11ml
TMB Substrate		1 x 12ml

Relevance

There are four IgG subclasses (IgG1, 2, 3 and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant).

Images



Representative Standard Curve using ab133045.

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