

Assay description for Rat IgG in Mouse serum

This document describes the assay procedure, including reagents and method to be used for a generic assay measuring Rat IgG in mouse serum.

Sandwich immunoassay (SIA) with two monoclonals as capture and detecting reagents. Both reagents are Fc specific. QC samples were run (same dilutions as standard curve).

Method: Bioaffy 200 3-step C-A-D wiz v1

CD-type: Bioaffy 200

Capture reagent:

Description (MAb/PAb; subclass):	Mouse anti Rat IgG1 (γ chain specific)
Clone/ Source:	G11C5
Supplier:	Southern Biotech
Prod number:	3061-01
Conc in assay (mg/ml):	0.1 mg/ml

Detection reagent:

Description (MAb/PAb; subclass):	Mouse anti Rat IgG1 (γ chain specific)
Clone:	G17E7
Supplier:	Southern Biotech
Prod number:	3060-01
Conc in assay (nM):	25 nM

Standard protein (human):

Description:	Rat IgG1, Monoclonal antibody to human interleukin 10
Supplier:	MabTech
Prod number:	3430-3
Formulation:	1 mg/ml in sterile filtered (0.2 μ m) PBS with 0.02% sodium azide
Standard curve range	10000 ng/ml – 0.64 ng/ml
Buffer	Dilutions in 25% pooled mouse serum diluted in REXXIP A

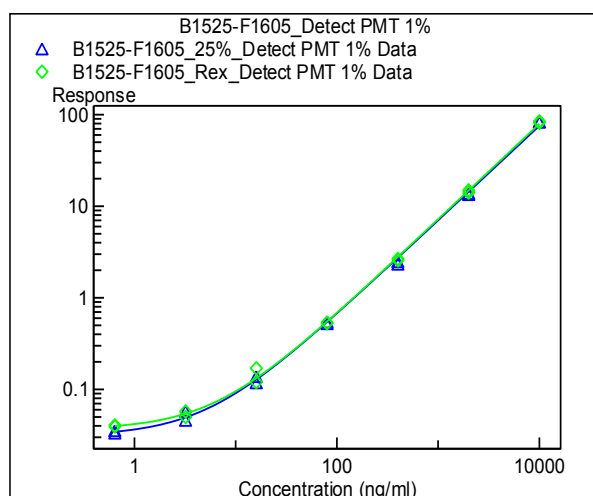


Figure 1. Standard curve with clone G11C5 as capture and clone G17E7 as detecting reagent. A comparison between REXXIP A and 25 % pooled Mouse serum is shown.

Table1. Response values, calculated concentration, CV % response, S/N and % Recovery are shown for 25 % pooled mouse serum. The % Recovery values of the QC samples indicate that concentrations down to 3.2 ng/ml can be measured, which in back calculated values represents 12.8 ng/ml.

PMT 1%

		B1525-F1605				
		25% mouse serum				
Sample type	Concentration (ng/ml)	Response	Calculated Concentration (ng/ml)	CV Response %	S/N	% Recovery
Blank	0	0.0347		11	0.038	
Blank	0	0.0405		11		
Standard	0.64	0.0354	0.807	4.3	0.9	97.0
Standard	0.64	0.0333	0.434	4.3		
Standard	3.2	0.0576	4.56	16	1.4	112.2
Standard	3.2	0.046	2.62	16		
Standard	16	0.118	14.3	11	3.4	99.4
Standard	16	0.138	17.5	11		
Standard	80	0.522	76.5	2.9	14.2	97.7
Standard	80	0.544	79.8	2.9		
Standard	400	2.48	362	4.4	64.0	87.9
Standard	400	2.33	341	4.4		
Standard	2000	13.4	1870	2.1	361.7	95.0
Standard	2000	13.8	1930	2.1		
Standard	10000	83.1	11000	0	2210.1	110.0
Standard	10000	83.1	11000	0		
QC 25%_0.64	0.64	0.0541	3.98	19	1.3	453.9
QC 25%_0.64	0.64	0.0413	1.83	19		
QC 25%_3.2	3.2	0.0498	3.26	6.2	1.4	113.9
QC 25%_3.2	3.2	0.0544	4.03	6.2		
QC 25%_16	16	0.121	14.8	10	3.5	101.9
QC 25%_16	16	0.14	17.8	10		
QC 25%_80	80	0.518	75.9	1.4	13.9	95.8
QC 25%_80	80	0.528	77.4	1.4		
QC 25%_400	400	2.43	355	1.5	64.0	87.9
QC 25%_400	400	2.38	348	1.5		
QC 25%_2000	2000	13.4	1870	2.1	351.1	92.3
QC 25%_2000	2000	13	1820	2.1		
QC 25%_10000	10000	79.9	>10000	0.79	2137.0	
QC 25%_10000	10000	80.8	>10000	0.79		