Domain	Amino Acid position
FR1	3-24
CDR1	25-32
FR2	33-44
CDR2	45-61
FR3	67-98
CDR3	99-106
FR4	107-117

Domain	Amino Acid position
FR1	2-26
CDR1	27-32
FR2	33-43
CDR2	44-55
FR3	57-90
CDR3	91-96
FR4	97-106

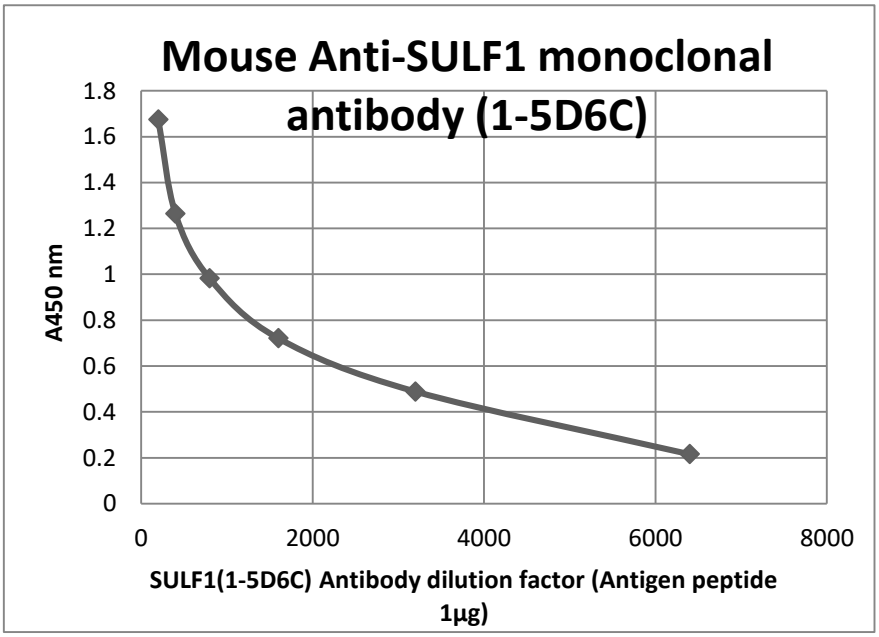
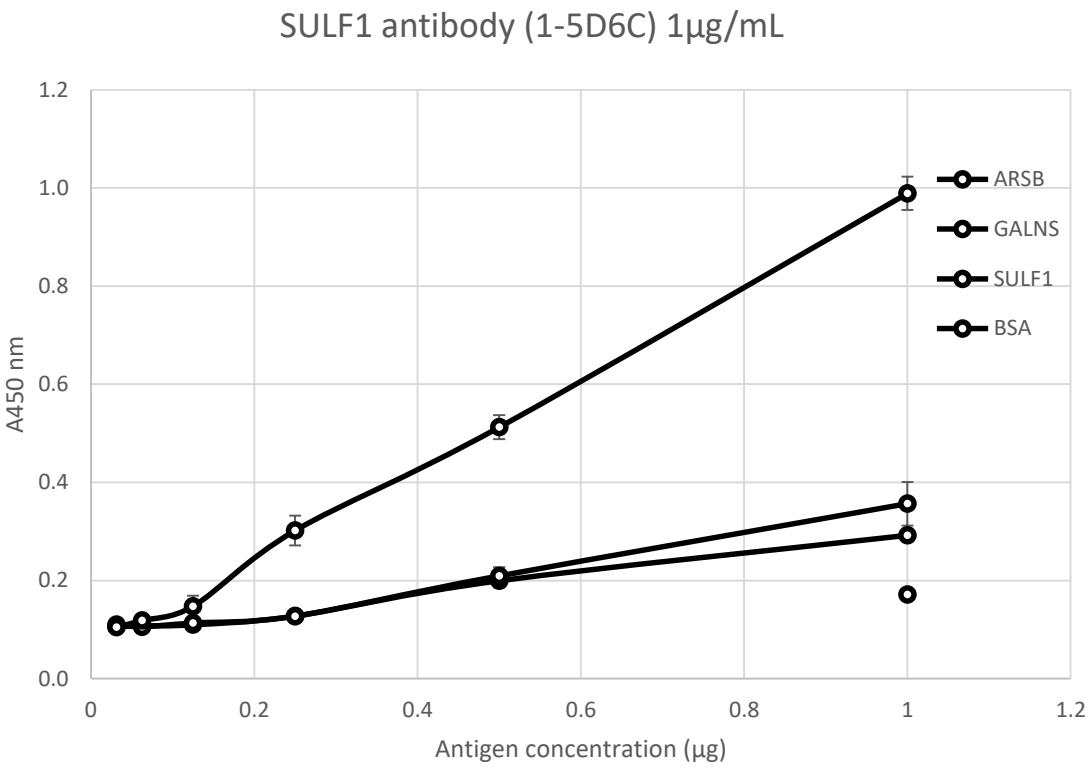


FIG. 1A


SULF1 antibody (1-5D6C) 1µg/mL
A450 nm
Antigen concentration (µg)
ARSB
GALNS
SULF1
BSA
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
0.2
0.4
0.6
0.8
1
1.2

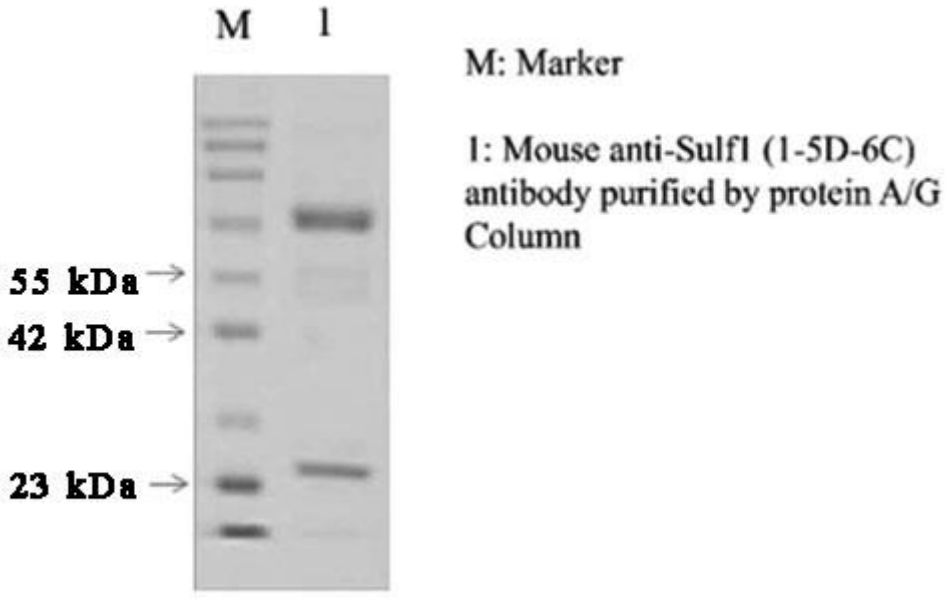

M
1
55 kDa
42 kDa
23 kDa
M: Marker
1: Mouse anti-Sulf1 (1-5D-6C) antibody purified by protein A/G Column

FIG. 1B

Domain	Amino Acid position
FR1	1-26
CDR1	27-38
FR2	39-50
CDR2	51-66
FR3	67-99
CDR3	110-125

Domain	Amino Acid position
FR1	2-26
CDR1	27-35
FR2	36-49
CDR2	50-60
FR3	61-96
CDR3	97-107
FR4	108-115

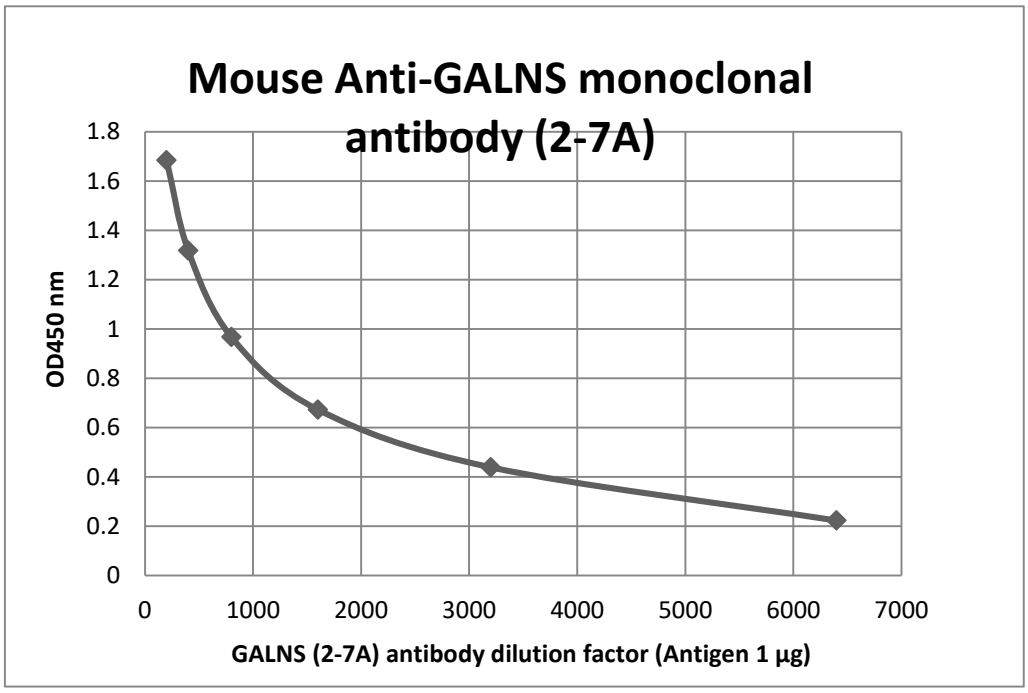
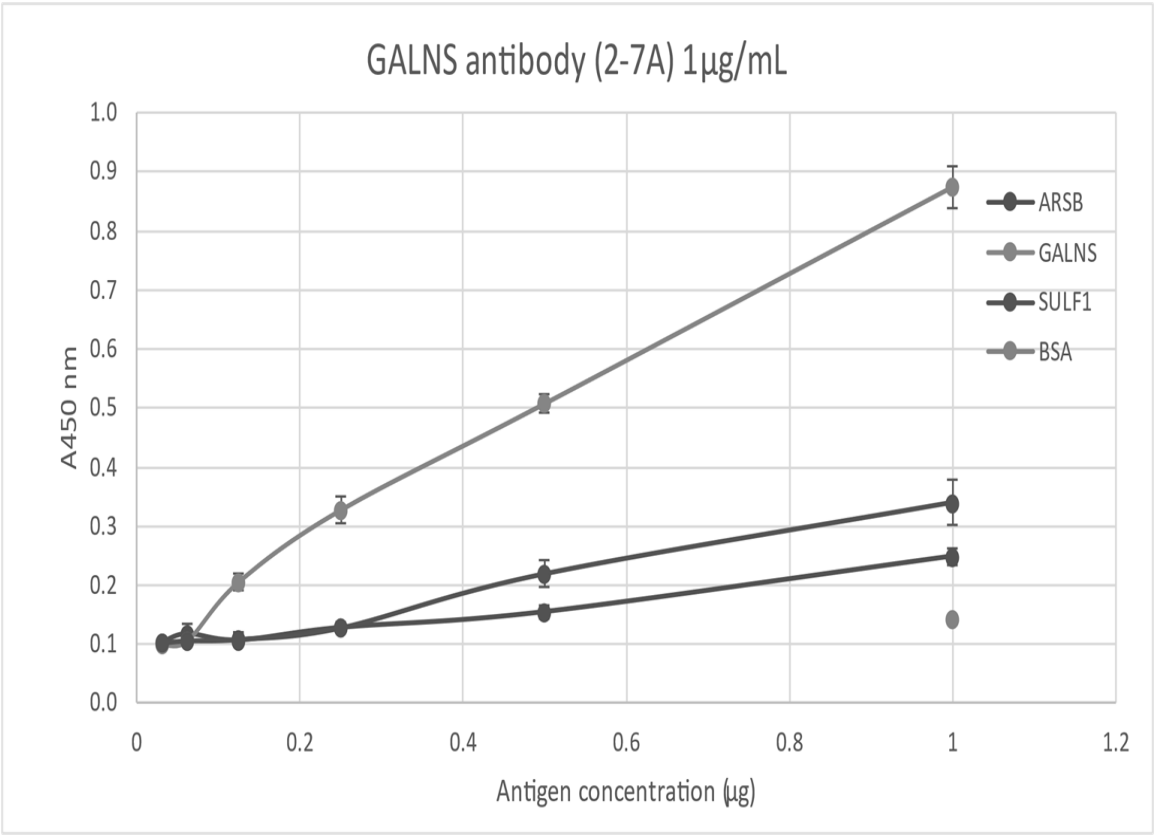


FIG. 2A


GALNS antibody (2-7A) 1μg/mL
A450 nm
Antigen concentration (μg)
ARSB
GALNS
SULF1
BSA
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
0.2
0.4
0.6
0.8
1
1.2

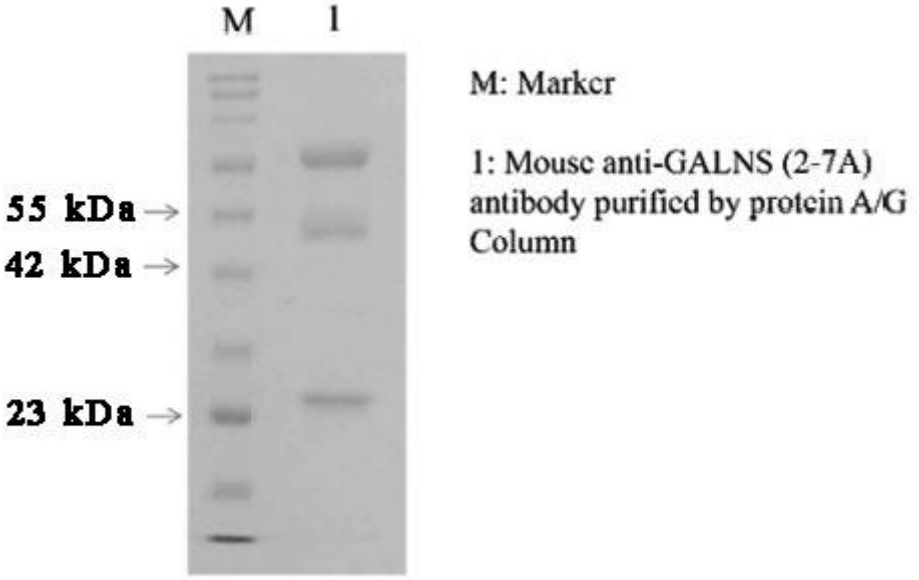
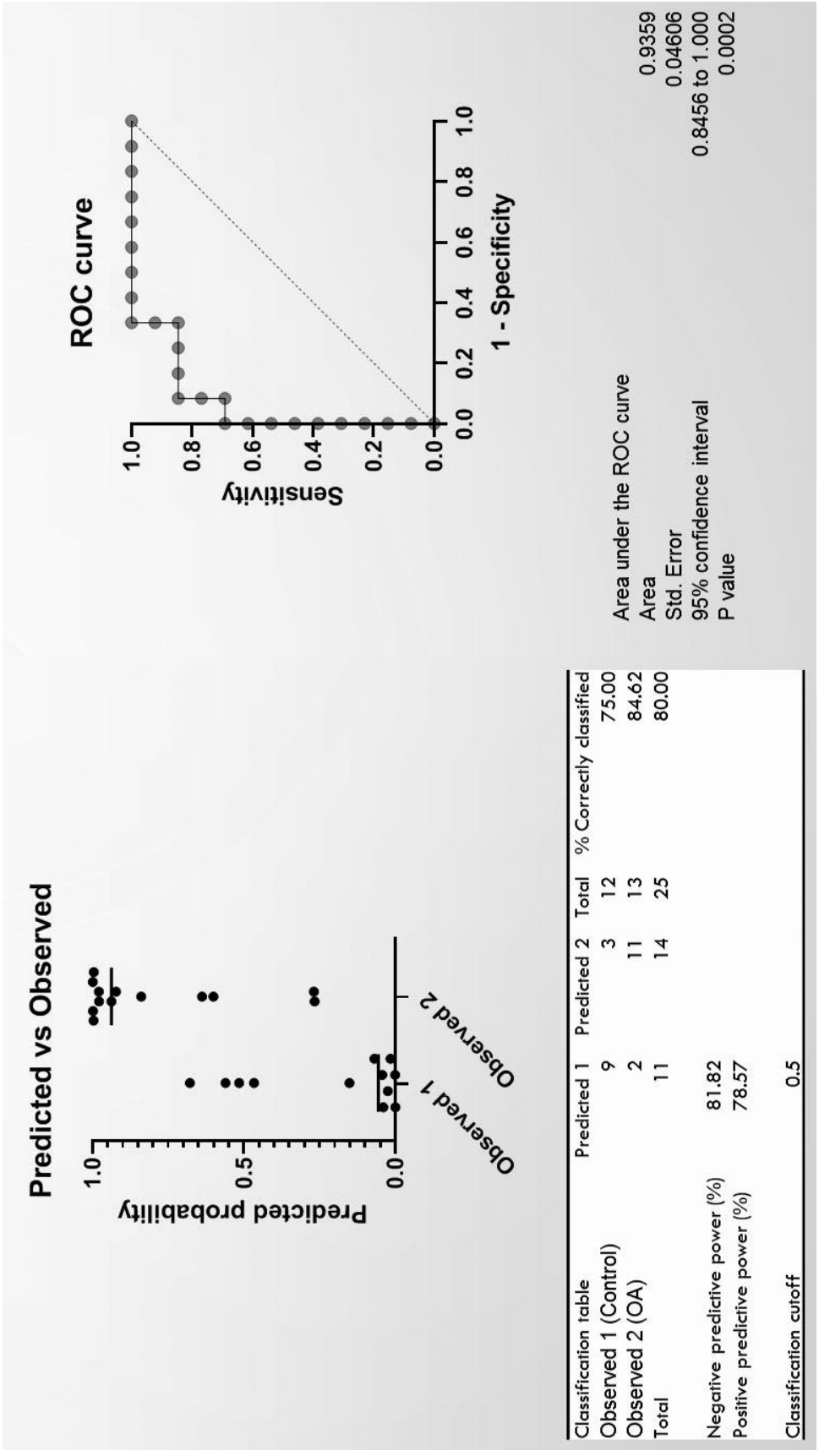

M
1
55 kDa
42 kDa
23 kDa
M: Marker
1: Mouse anti-GALNS (2-7A) antibody purified by protein A/G Column

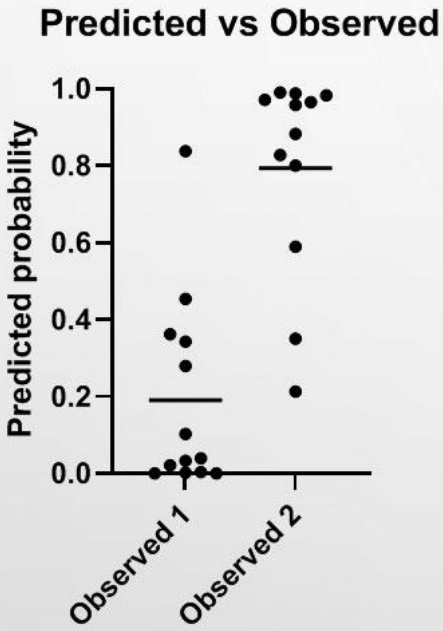
FIG. 2B

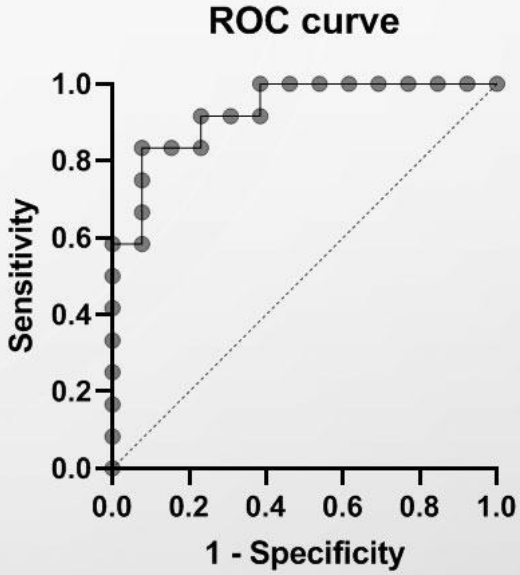


Classification table	Predicted 1	Predicted 2	Total	% Correctly classified
Observed 1 (Control)	9	3	12	75.00
Observed 2 (OA)	2	11	13	84.62
Total	11	14	25	80.00
Negative predictive power (%)	81.82			
Positive predictive power (%)	78.57			
Classification cutoff	0.5			

Area under the ROC curve	
Area	0.9359
Std. Error	0.04606
95% confidence interval	0.8456 to 1.000
P value	0.0002

FIG. 3





Classification table	Predicted 1	Predicted 2	Total	% Correctly classified
Observed 1	12	1	13	92.31
Observed 2	2	10	12	83.33
Total	14	11	25	88.00
Negative predictive power (%)	85.71			
Positive predictive power (%)	90.91			
Classification cutoff	0.5			

Area under the ROC curve	
Area	0.9295
Std. Error	0.04908
95% confidence interval	0.8333 to 1.000
P value	0.0003

FIG. 4

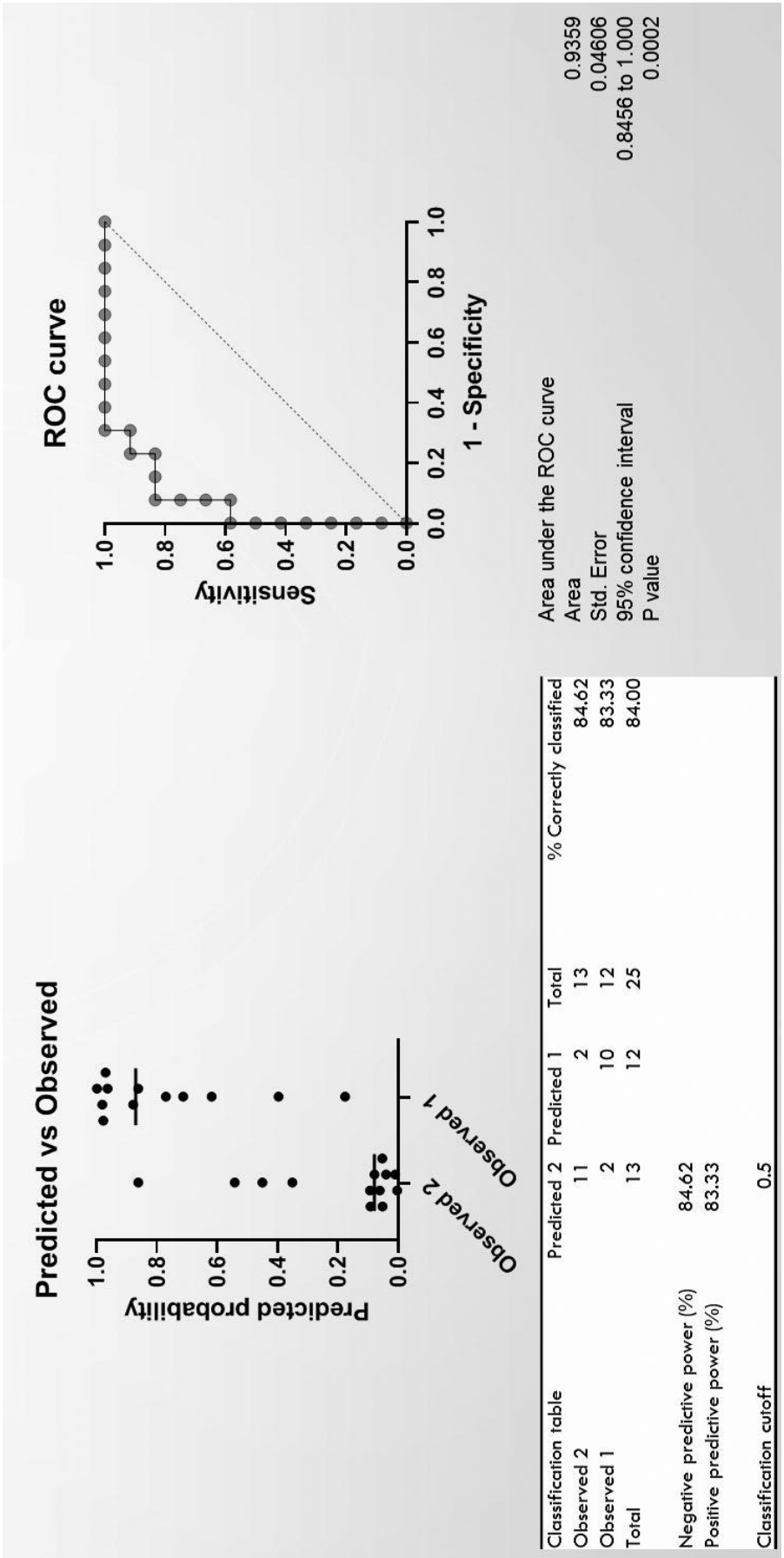

Predicted vs Observed
Predicted probability
1.0
0.8
0.6
0.4
0.2
0.0
Observed 2
Observed 1
ROC curve
Sensitivity
1 - Specificity
Area under the ROC curve
Area 0.9359
Std. Error 0.04606
95% confidence interval 0.8456 to 1.000
P value 0.0002
Classification table
Predicted 2 Predicted 1 Total % Correctly classified
Observed 2 11 2 13 84.62
Observed 1 2 10 12 83.33
Total 13 12 25 84.00
Negative predictive power (%) 84.62
Positive predictive power (%) 83.33
Classification cutoff 0.5

FIG. 5