

EQA round: IHC2/23 - Immunohistochemistry - Detection of HER-2/neu

Deadline: 8.9.2023

Setup: all data

AV = assigned value

N_{tot} = total number of the resultsN_{eva} = number of the results assessed

CVE = consensus of the experts

N_{rel} = relative number of the resultsN_{suc} = number of successful results

>>> ... expected result

S_{rel} = relative success

> ... acceptable result

± ... result not assessed

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(601) A1 expression HER-2/neu		49			49	49	100
Slide		49			49	49	100
All results	CVE >>>	49	100	Strong positive (3+)			
(602) A2 expression HER-2/neu		49			49	48	98
Slide		49			49	48	98
All results	CVE >>>	44	90	Negative (0)			
	>	4	8,2	Negative (1+)			
		1	2	Weak positive (2+)			
(603) A3 expression HER-2/neu		49			49	40	82
Slide		49			49	40	82
All results		9	18	Negative (1+)			
	CVE >>>	35	71	Weak positive (2+)			
	>	5	10	Strong positive (3+)			
(606) B1 expression HER-2/neu		49			0		
Slide		49			0		
All results	±	24	49	Negative (1+)			
	±	25	51	Weak positive (2+)			
(607) B2 expression HER-2/neu		49			49	49	100
Slide		49			49	49	100
All results	CVE >>>	33	67	Weak positive (2+)			
	>	16	33	Strong positive (3+)			
(608) B3 expression HER-2/neu		49			0		
Slide		49			0		
All results	±	20	41	Negative (1+)			
	±	29	59	Weak positive (2+)			
(611) C1 expression HER-2/neu		49			0		
Slide		49			0		
All results	±	28	57	Negative (1+)			
	±	20	41	Weak positive (2+)			
	±	1	2	Strong positive (3+)			
(612) C2 expression HER-2/neu		49			49	44	90
Slide		49			49	44	90
All results	CVE >>>	24	49	Negative (0)			
	CVE >>>	20	41	Negative (1+)			
		5	10	Weak positive (2+)			
(613) C3 expression HER-2/neu		49			49	49	100
Slide		49			49	49	100
All results	CVE >>>	45	92	Weak positive (2+)			
	>	4	8,2	Strong positive (3+)			
(616) D1 expression HER-2/neu		48			48	46	96
Slide		48			48	46	96
All results	CVE >>>	25	52	Negative (0)			
	CVE >>>	21	44	Negative (1+)			
		2	4,2	Weak positive (2+)			
(617) D2 expression HER-2/neu		49			0		
Slide		49			0		
All results	±	17	35	Negative (1+)			
	±	31	63	Weak positive (2+)			
	±	1	2	Strong positive (3+)			
(618) D3 expression HER-2/neu		49			0		
Slide		49			0		
All results	±	9	18	Negative (1+)			
	±	39	80	Weak positive (2+)			
	±	1	2	Strong positive (3+)			
(621) E1 expression HER-2/neu		49			49	48	98
Slide		49			49	48	98
All results	CVE >>>	25	51	Negative (0)			
	CVE >>>	23	47	Negative (1+)			
		1	2	Weak positive (2+)			
(622) E2 expression HER-2/neu		49			49	49	100
Slide		49			49	49	100
All results	CVE >>>	31	63	Negative (0)			
	CVE >>>	18	37	Negative (1+)			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(623) E3 expression HER-2/neu		48			48	48	100
Slide		48			48	48	100
All results	CVE >>>	48	100	Negative (0)			