

A

## Immunohistochemistry BoDV-1-N

		Time post infection	3 hpi	18 hpi	1 dpi	2 dpi	4 dpi	7 dpi	14 dpi	21 dpi
Adult neurons	Score	0	5	5	5	5	3	3	0	0
		1	0	0	0	0	2	2	0	0
		2	0	0	0	0	0	0	2	0
		3	0	0	0	0	0	0	3	2
		Arithmetic mean	0	0	0	0	0.4	0.4	2.6	3
Juvenile neurons	Score	0	5	5	5	5	4	5	0	0
		1	0	0	0	0	1	0	2	0
		2	0	0	0	0	0	0	1	1
		3	0	0	0	0	0	0	2	1
		Arithmetic mean	0	0	0	0	0.2	0	2	2.5
Sustentacular cells	Score	0	5	5	5	5	5	5	2	0
		1	0	0	0	0	0	0	1	0
		2	0	0	0	0	0	0	2	1
		3	0	0	0	0	0	0	0	1
		Arithmetic mean	0	0	0	0	0	0	1	2.5
Globose basal cells	Score	0	5	5	5	5	5	4	2	0
		1	0	0	0	0	0	1	1	0
		2	0	0	0	0	0	0	2	1
		3	0	0	0	0	0	0	0	1
		Arithmetic mean	0	0	0	0	0	0.2	1	2.5
Horizontal basal cells	Score	0	5	5	5	5	5	5	3	0
		1	0	0	0	0	0	0	0	1
		2	0	0	0	0	0	0	2	1
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0.8	1.5
Nerve fibers	Score	0	5	5	5	5	5	5	0	0
		1	0	0	0	0	0	0	1	0
		2	0	0	0	0	0	0	4	0
		3	0	0	0	0	0	0	0	2
		Arithmetic mean	0	0	0	0	0	0	1.8	3
Olfactory ensheathing cells	Score	0	5	5	5	5	5	5	0	0
		1	0	0	0	0	0	0	1	0
		2	0	0	0	0	0	0	4	0
		3	0	0	0	0	0	0	0	2
		Arithmetic mean	0	0	0	0	0	0	1.8	3

B

*In situ* hybridization viral genomic RNA (gRNA)

		Time post infection	3 hpi	18 hpi	1 dpi	2 dpi	4 dpi	7 dpi	14 dpi	21 dpi
Adult neurons	Score	0	5	5	5	5	5	2	0	0
		1	0	0	0	0	0	2	0	0
		2	0	0	0	0	0	1	5	2
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0.8	2	2
Juvenile neurons	Score	0	5	5	5	5	5	3	0	0
		1	0	0	0	0	0	1	5	1
		2	0	0	0	0	0	1	0	1
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0.6	1	1.5
Sustentacular cells	Score	0	5	5	5	5	5	5	5	2
		1	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0	0
Globose basal cells	Score	0	5	5	5	5	5	5	5	2
		1	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0	0
Horizontal basal cells	Score	0	5	5	5	5	5	5	5	2
		1	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0	0
Nerve fibers	Score	0	5	5	5	5	5	3	3	0
		1	0	0	0	0	0	2	2	1
		2	0	0	0	0	0	0	0	1
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0.4	0.4	1.5
Olfactory ensheathing cells	Score	0	5	5	5	5	5	4	0	0
		1	0	0	0	0	0	1	2	1
		2	0	0	0	0	0	0	3	1
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0.2	1.6	1.5

C

*In situ* hybridization messenger RNA (mRNA)

		Time post infection	3 hpi	18 hpi	1 dpi	2 dpi	4 dpi	7 dpi	14 dpi	21 dpi
Adult neurons	Score	0	5	5	5	5	3	1	0	0
		1	0	0	0	0	0	3	1	0
		2	0	0	0	0	2	1	3	1
		3	0	0	0	0	0	0	1	1
		Arithmetic mean	0	0	0	0	0.8	1	2	2.5
Juvenile neurons	Score	0	5	5	5	5	5	5	0	0
		1	0	0	0	0	0	0	3	1
		2	0	0	0	0	0	0	1	0
		3	0	0	0	0	0	0	1	1
		Arithmetic mean	0	0	0	0	0	0	1.6	2
Sustentacular cells	Score	0	5	5	5	5	5	5	5	2
		1	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0	0
Globose basal cells	Score	0	5	5	5	5	5	5	5	2
		1	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0	0
Horizontal basal cells	Score	0	5	5	5	5	5	5	5	2
		1	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0	0
Nerve fibers	Score	0	5	5	5	5	5	5	3	0
		1	0	0	0	0	0	0	1	1
		2	0	0	0	0	0	0	1	1
		3	0	0	0	0	0	0	0	0
		Arithmetic mean	0	0	0	0	0	0	0.6	1.5
Olfactory ensheathing cells	Score	0	5	5	5	5	5	5	3	0
		1	0	0	0	0	0	0	0	1
		2	0	0	0	0	0	0	1	1
		3	0	0	0	0	0	0	1	0
		Arithmetic mean	0	0	0	0	0	0	1	1.5