Supplementary information

Table S1. Severity and attribution of adverse events

	Adverse Event	Grade	Attribution	SAE*	DLT†
50 mg Col	nort				
Patient 1					
Day 16	Pain	1	Unrelated	No	No
Patient 2					
Day 16	Fatigue	1	Unrelated	No	No
Day 16	Wound infection	1	Unrelated	No	No
Day 16	Localized edema	1	Unrelated	No	No
Day 30	Arthralgia	1	Unrelated	No	No
Patient 3					
Day 30	Edema limbs	2	Unrelated	No	No
Patient 5					
Day 16	Confusion	2	Unrelated	No	No
Day 30	Confusion	1	Unrelated	No	No
100 mg Co	phort				
Patient 7					
Day 16	Memory impairment	1	Unrelated	No	No
Patient 8	,p	-			
Day 2	Vestibular disorder	1	Unrelated	No	No
Day 2	Hearing impaired	1	Unrelated	No	No
Day 2	Concentration impairment	1	Unrelated	No	No
Day 2	Gait disturbance	1	Unrelated	No	No
Day 2	Hypertension	1	Unrelated	No	No
Day 16	Vestibular disorder	1	Unrelated	No	No
Day 16	Confusion	1	Unrelated	No	No
Day 16	Memory impairment	1	Unrelated	No	No
Day 16	Muscle weakness right-sided	1	Unrelated	No	No
Day 16	Headache	1	Unrelated	No	No
Day 16	Fatigue	1	Unrelated	No	No
Day 16	Dysphasia	1	Unrelated	No	No
Day 30	Confusion	1	Unrelated	No	No
Day 30	Memory impairment	1	Unrelated	No	No
Day 30	Muscle weakness right-sided	1	Unrelated	No	No
Day 30	Headache	1	Unrelated	No	No
Day 30	Fatigue	1	Unrelated	No	No
Day 30	Dysphasia	1	Unrelated	No	No
Patient 10		-	Officiated	140	140
Day 1	Seizure	3	Unrelated	No	No
Day 1 Day 1	Muscle weakness upper limb	1	Unrelated	No	No
•	• •	1	Unrelated	No	No
Day 1 Day 1	Fatigue Myalgia	1	Unrelated	No	No
Day 1 Day 1	Tinnitus	1	Unrelated	No	No
Day 1 Day 1	Dysphasia	1	Unrelated	No	No
Day 1 Day 1	Seizure	1	Unrelated	No	No
Day 1 Day 2	Seizure	1	Unrelated	No	No
Day 2 Day 30	Seizure	1	Unrelated	No	No
Day 30	Seizure	1	Unrelated	No	No
		1	Unrelated		
Day 30	Seizure			No	No
Day 30	Seizure	1	Unrelated	No	No
Day 30	Seizure	1	Unrelated	No	No
Patient 11					
Day 30	Headache	1	Unrelated	No	No

^{*} SAE = serious adverse event; † DLT = dose limiting toxicity

Figure S1. Fresh tissue fluorescence at three different imaging windows. Linear regression (with 95% confidence intervals) of mean fluorescence intensity (MFI) normalized to panitumumab-IRDye800 dose (mg/kg) against tissue weight of fresh tissue pieces removed 1 day, 2 days and 3 days after panitumumab-IRDye800 infusion.

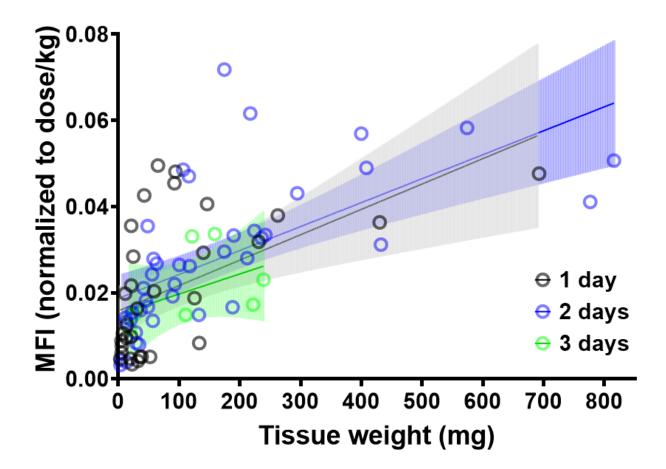


Figure S2. MFI (*left y-axis*) of tumor (T) and normal (N) tissue sections and tumor TBR (*left y-axis*) for low and high dose cohorts. *Dotted lines*: MFI cutoff values (0.5545, red; 0.7445, blue) for maximal specificity and sensitivity of respective ROC curves in **Figure 4B**; P < 0.0001 (50 mg T vs 50 mg N; 100 mg T vs 100 mg N; 50 mg T vs 100 mg T) and P = 0.018 (50 mg N vs 100 mg N) for MFI comparisons; P = 0.0035 (50 mg TBR vs 100 mg TBR). Statistical test: unpaired t-test with Welch's correction.

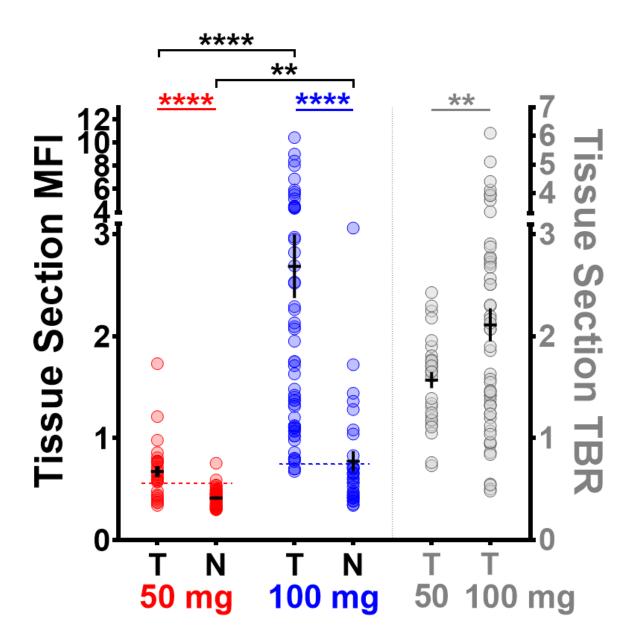


Figure S3. NIR fluorescence in gliotic brain tissue. Histological and immunohistochemical stainings of resected HGG tissue containing gliosis (*dotted outlines*).

