



# Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.





## Brain NGS Fusion Panel

### Alternative Name

Brain Tumor Fusion Panel

### Methodology

Molecular

### Test Description

The Brain Tumor NGS Fusion Panel is an RNA-based next-generation sequencing panel that detects gene rearrangements (fusions) with known and novel fusion partners of these 28 genes: ALK, BRAF, CIC, EGFR including EGFRvIII, EML4, ETV6, EWSR1, FGFR1, FGFR2, FGFR3, FUS, KIAA1549, MAML2, MET, MN1, MYB, MYBL1, NTRK1, NTRK2, NTRK3, PRKCA, RAF1, ROS1, STAT6, TACC3, TFG, YAP1, and ZFTA (C11orf95).

### Clinical Significance

The Brain Tumor NGS Fusion Panel is intended to detect gene fusions associated with brain tumors to aid in the diagnosis, disease classification, and therapy determination as outlined in the 2021 WHO Classification of Tumors of the CNS, 5<sup>th</sup> edition. Gliomas are the most common primary brain tumors with high recurrence and mortality rates. Gene fusions are identified in 30-50% of glioblastomas (GBMs). Potentially druggable gene fusions in all GBMs include FGFR (1.2%-8.3%), EGFR (2.2%-4%), and NTRK (1.2%-1.7%).

### Specimen Requirements

- **FFPE tissue:** Paraffin block is preferred. Alternatively, send 1 H&E slide plus 5-10 unstained slides cut at 5 or more microns. Please use positively-charged slides and 10% NBF fixative. Do not use zinc fixatives.

### Storage & Transportation

Use cold pack for transport, making sure cold pack is not in direct contact with specimen.

### CPT Code(s)\*

81449

### Medicare MoIDX CPT Code(s)\*

81449

### New York Approved

Yes

### Level of Service

Global

### Turnaround Time

21 Days

## References

1. Louis DN et al. The 2021 WHO Classification of Tumors of the Central Nervous System: a summary. *Neuro-Oncology*. 2021;23(8):1231-1251. <https://doi.org/10.1093/neuonc/noab106>

\*The CPT codes provided with our test descriptions are based on AMA guidelines and are for informational purposes only. Correct CPT coding is the sole responsibility of the billing party.

Please direct any questions regarding coding to the payor being billed.

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