

XL 19p/19q del

Deletion Probe

Order No.:
D-6019-100-OG

Description

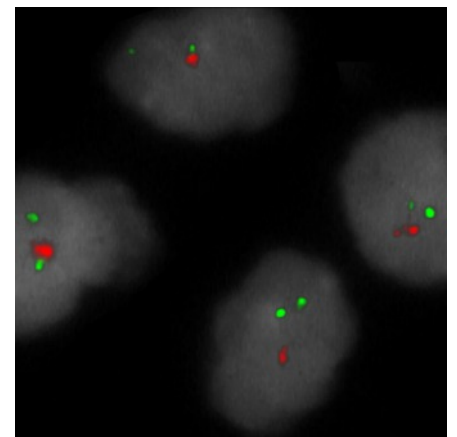
XL 19p/19q del detects deletions in the long arm of chromosome 19. The orange labeled probe hybridizes to the GLTSCR1 and GLTSCR2 locus at 19q13. A green labeled probe hybridizes to a specific locus at 19p13 and functions as a reference probe. This probe is intended for methanol/acetic-acid fixed cells and tissue sections.

Clinical Details

The 2016 'World Health Organization Classification of Tumors of the Central Nervous System' (WHO 2016) combines, for the first time, histological features and molecular signatures for the definition of many tumor entities. Gliomas are a category of tumors of the brain and spinal cord starting in glia cells. Oligodendrogliomas are a subtype of gliomas accounting for up to 18% of all cases. According to the WHO 2016, the classification of an oligodendroglioma requires information about the isocitrate dehydrogenase mutation status and 1p/19q loss of heterozygosity (LOH). LOH of 19q can be detected in about 80% of oligodendroglial tumors and to a lower extent in mixed gliomas. Co-deletion of 1p/19q is a well-accepted prognostic biomarker in neuro-oncology. Patients suffering from anaplastic oligodendroglioma harboring 1p/19q deletion, generally have a good prognosis. Co-deletion of 1p/19q has also predictive character, the molecular status of 1p/19q is relevant for therapy decisions.

Literature:

- Reifenberger et al (1994) Am J Pathol 145:1175-1190
- Louis et al (2016) Acta Neuropathol 131:803-820
- Staedtke et al (2016) Trends Cancer 2:338-349

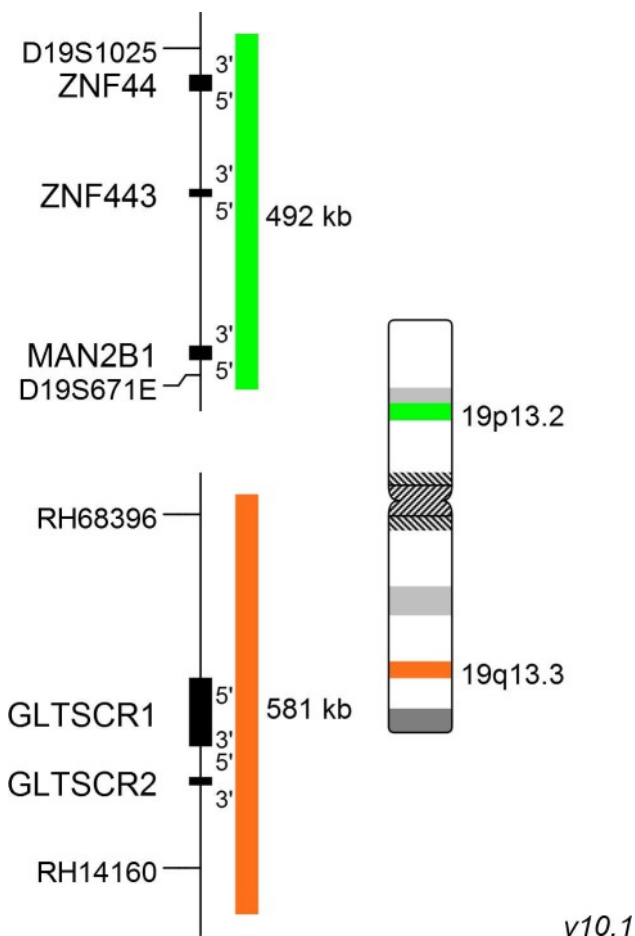


XL 19p/19q del hybridized to oligodendroglioma tissue, four aberrant cells are shown. The expected normal signal pattern of XL 19p/19q del is two green and two orange signals. Loss of heterozygosity of 19q is indicated by the loss of one orange signal as shown above.

Clinical Applications:

- Solid tumors

FACTSHEET



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Document No. PFS-D6019-2018-04-01-S
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Related Products

Product	Size	Order No.
XL 1p36/1q25 del	100 µl	D-6021-100-OG

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