XL 1p36/1q25 del

Deletion Probe

Order No.:
D-6021-100-OG

Description

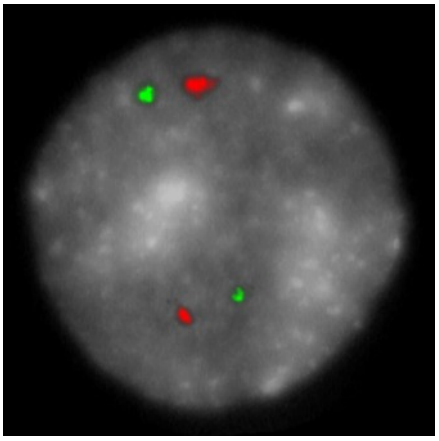
XL 1p36/1q25 del detects deletions in the short arm of chromosome 1. The orange labeled probe hybridizes to the CHD5 locus at 1p36. A green labeled probe hybridizes to the ABL2 locus at 1q25 and functions as a reference probe. This probe is intended for methanol/acetic-acid fixed cells and tissue sections.

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 1p can be detected in about 67% of oligodendroglial tumors and has also been identified in neuroblastomas and other tumor entities. 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 1p36/1q25 del hybridized to lymphocytes, one normal interphase is shown. The expected normal signal pattern of XL 1p36/1q25 del is two orange and two green signals. Loss of heterozygosity of 1p is indicated by the the loss of one orange signal resulting in the signal constellation one orange and two green.

Clinical Applications:

- Solid tumors

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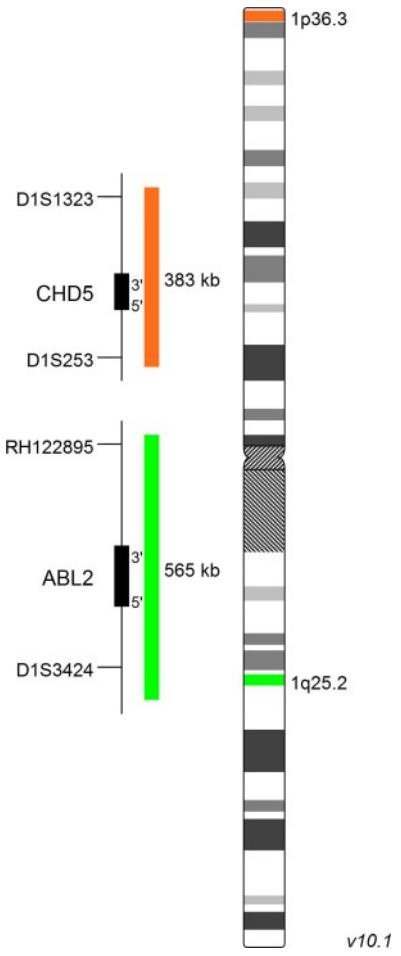

Related Products

Product	Size	Order No.
XL 19p/19q del	100 µl	D-6019-100-OG

MetaSystems Probes

MetaSystems Probes GmbH (Headquarters)
1. Industriestrasse 7
68804 Altlussheim, Germany
tel +49 6205 2927 60|fax +49 6205 2927 29
info@metasystems-probes.com

MetaSystems Group, Inc.
70 Bridge Street
Newton, MA 02458, USA
tel +1 6179 2499 50|fax +1 6179 2499 54
info@metasystems.org

MetaSystems S.r.l.
Via Gallarate 80
20151 Milano, Italy
tel +39 0236 7587 51|fax +39 0245 3753 03
info@metasystems-italy.com

MetaSystems India Pvt., Ltd.
No. 1/1, 1st Floor, 1st Main Rd., 2nd cross
Thimmaiah Garden, R T Nagar
Bangalore Karnataka, 560 032, India
tel +91 9535 7788 01
info@metasystems-india.com

MetaSystems Asia Co., Ltd.
Unit 108, 1/F, Bio-Informatics Centre
No. 2 Science Park West Avenue
Hong Kong Science Park
Shatin, New Territories, Hong Kong
tel +852 2587 8333|fax +852 2587 8334
info@metasystems-asia.com

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