

XL 20q12/20qter /8cen plus Deletion Probe

Order No.:
D-5122-100-TC

Description

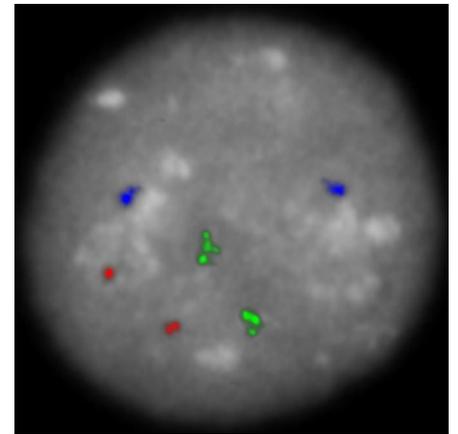
The XL 20q12/20qter/8cen plus probe detects deletions which occur in the long arm of chromosome 20. An orange labeled probe hybridizes to 20q12 to the proximal part of PTPRT and a green labeled probe hybridizes to the q-terminal region of the long arm of chromosome 20. Additionally, a blue labeled probe hybridizes to the centromere of chromosome 8.

Clinical Details

The myelodysplastic syndromes (MDS) are a group of hematopoietic stem cell disorders associated with ineffective hematopoiesis and peripheral blood cytopenia. MDS patients have a high risk to progress to acute leukemia. In about 50% of de novo MDS cytogenetic aberrations are observed. A chromosome 20q deletion is seen in about 2% of MDS cases. Patients with a sole del(20q) have a favorable outcome. About 30% of all del(20q) patients are carrying additional recurrent chromosomal abnormalities as del(5q), monosomy 7, del(7q) and trisomy 8. The presence of three or more additional aberrations is associated with an inferior outcome. In rare cases, the 20q deletion can occur as an isoderivative chromosome ider(20q) with loss of the p-arm of chromosome 20 and partial trisomy of the remaining regions on the q-arm. The knowledge of the cytogenetic status in MDS patients has prognostic significance.

Literature:

- Solé et al (2005) Haematologica 90:1168-1178
- Douet-Gilbert et al (2008) Br J Haematol 143:716-720
- Bacher et al (2014) Br J Haematol 164:822-833

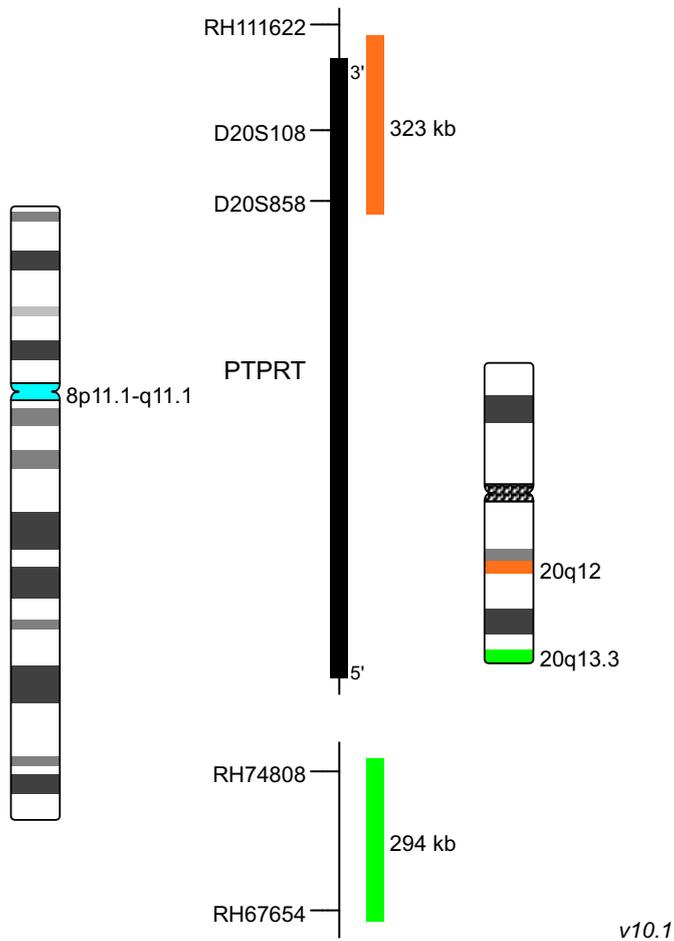


XL 20q12/20qter/8cen plus hybridized to normal lymphocytes. One interphase is shown. The expected normal signal pattern is two orange, two green and two blue signals. Deletions including region 20q12 result in the signal constellation one orange, two green and two blue signals. A trisomy 8 is indicated by an additional blue signal. The 20q deletion can occur as an ider(20q) resulting in three green, one orange and two blue signals.

Clinical Applications:

- MDS
- AML

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Related Products

Product	Size	Order No.
XL 20q12/20qter plus	100 µl	D-5121-100-OG
XL Del(20q) plus	100 µl	D-5119-100-OG

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