

ZytoDot® 2C SPEC NTRK1 Break Apart Probe (C-3078-100)

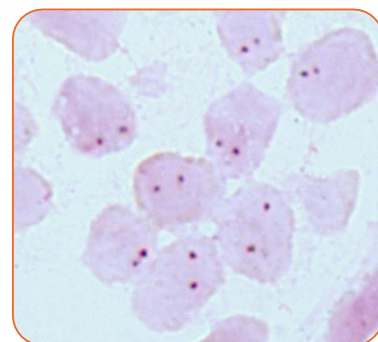
The **ZytoDot® 2C SPEC NTRK1 Break Apart Probe** is designed to detect translocations involving the chromosomal region 1q23.1 harboring the NTRK1 gene. NTRK gene rearrangements were found to occur in many different tumor types. They result in the fusion of the 3' end of the NTRK gene, encoding the NTRK kinase domain, with the 5' end of various activating genes. The product of the fusion is a chimeric oncoprotein characterized by ligand-independent constitutive activation of the NTRK kinase. More than 40 different 5' gene partners of NTRK1 have been described in a diverse range of human tumor types including, e.g., papillary thyroid carcinoma, lung cancer, sarcomas, and spitzoid neoplasms. Several papillary thyroid carcinoma studies showed that NTRK1 rearrangements may be associated with a worse clinical course when compared with NTRK1 rearrangement-negative papillary thyroid carcinomas.

The treatment of patients with NTRK fusion-positive cancers with a NTRK inhibitor such as the FDA-approved drugs larotrectinib or entrectinib is associated with high response rates, regardless of NTRK gene, fusion partner, and tumor type. Hence, detection of NTRK1 rearrangements by *in situ* Hybridization may be of prognostic and therapeutic significance.

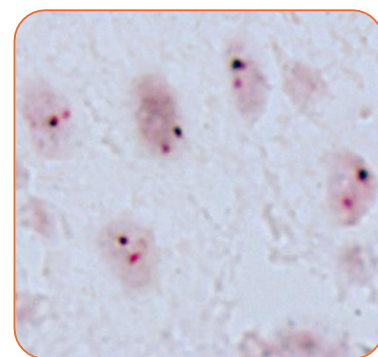
To receive more details of our **ZytoDot® 2C SPEC NTRK1 Break Apart Probe** please use the following link to download all available information:

<https://www.zytovision.com/products/zytodot2c/c-3078>

- Product Data Sheet
- Instruction for Use



SPEC NTRK1 Break Apart Probe hybridized to normal interphase cells as indicated by two red/green fusion signals.



Spindle cell sarcoma tissue section with rearrangement of the NTRK1 gene as indicated by isolated red signals.

Prod. No.	Product	Label	Tests* (Volume)
C-3078-100	ZytoDot 2C SPEC NTRK1 Break Apart Probe	DIG/DNP	10 (100 µl)
Related Products			
C-3044-10	ZytoDot 2C CISH Implementation Kit		10

*Using 10 µl probe solution per test.

The probe is registered as CE IVD and available as 10 test volume.

We hope that the **ZytoDot® 2C SPEC NTRK1 Break Apart Probe** will perfectly complement our **ZytoDot®** product portfolio in the field of lung cancer diagnostic.

Please do not hesitate to contact us if you have any questions or comments. We hope that this information is helpful for you.