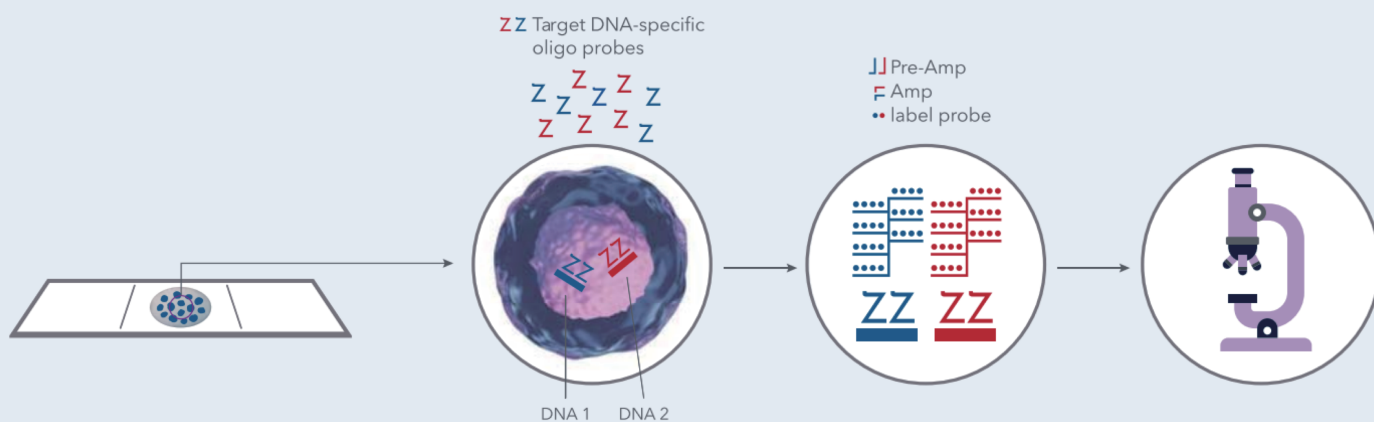


讓原位雜交檢測技術 成為您最好的工具

目前檢測DNA異常主要使用螢光原位雜交技術(FISH)，但由於此技術是利用螢光進行染色，因此形態學細節方面資訊不夠全面，並且需要使用高解析度的螢光顯微鏡來觀察基因重排(gene rearrangement)和拷貝數變異(copy number variation)。此外，細菌人工染色體(BAC)的DNA探針長度較長且跨越多個基因，缺乏單基因檢測的特異性，因而限制了DNA研究的發展。

為了克服這些限制，ACD公司推出一種新的可見光DNA原位雜交技術：DNAscope™。此技術採用了RNAscope™的雙Z探針設計和訊號放大系統，能夠針對任何DNA目標快速靈活地設計探針，進而在石蠟包埋組織中觀察目標DNA的異常狀況。

DNAscope 實驗流程



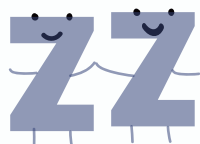
Tissue Section

Hybridize to target DNA

Amplify Signal

Image at 40x

優點



可見光呈色，可輕鬆觀察及分析數據

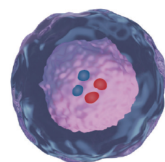
高靈敏度與特異性，在訊號放大的同時，降低背景產生

在單一細胞中可以精確偵測目標基因

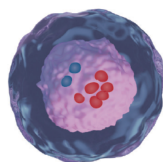
快速的探針設計及簡單的操作步驟



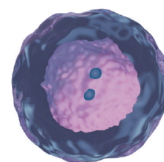
偵測DNA COPY NUMBER VARIATION



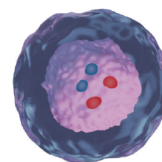
ERBB2 unamplified



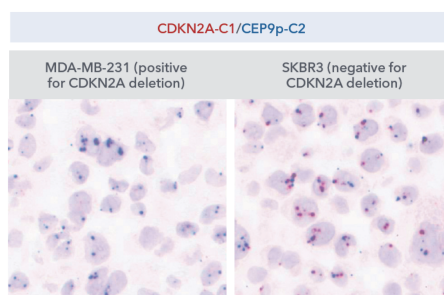
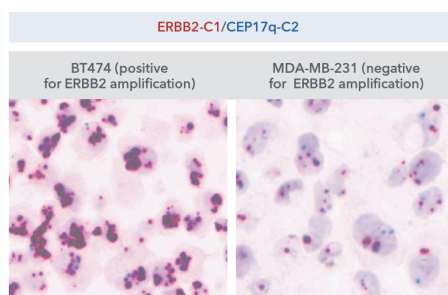
ERBB2 amplified



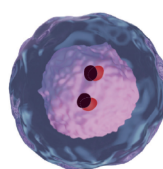
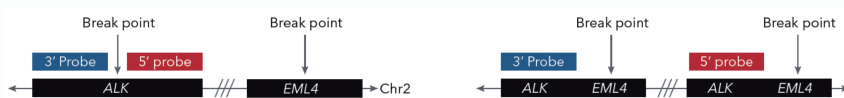
CDKN2A deleted



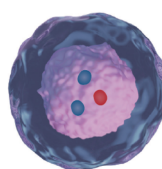
CDKN2A wildtype



偵測DNA BREAK-APART EVENTS

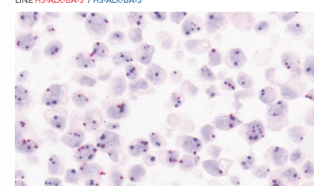


Control
Wild type ALK
(fused signals)

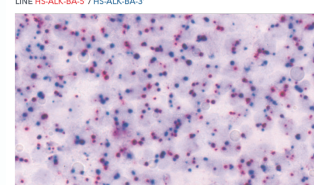


ALK
Rearrangements
(Break-apart signals)

ALK WT BREAK-APART NEGATIVE CELL
LINE HS-ALK-BA-5 / HS-ALK-BA-3



ALK BREAK-APART POSITIVE CELL
LINE HS-ALK-BA-5 / HS-ALK-BA-3



產品資訊

PRODUCT NAME	DESCRIPTION	CATALOG NUMBER
DNAscope™ HD Duplex Reagent Kit	*Contains DNAscope™ HD Duplex Detection- *Reagents *DNAscope Pretreatment Reagents Kit *50x wash buffer	324700

CONTROL PROBES

GENE NAME	PROBE NAME	CATALOG NUMBER
CEP3q	DS-Hs-CEP3q-C2	1080211-C2
CEP7q	DS-Hs-CEP7q-C2	1080221-C2
CEP9p	DS-Hs-CEP9p-C2	1080231-C2
CEP12p	DS-Hs-CEP12p-C2	1080241-C2
CEP17q	DS-Hs-CEP17q-C2	1080251-C2

TARGET PROBES

GENE NAME	PROBE NAME	CATALOG NUMBER
ERBB2 (HER2)	DS-Hs-ERBB2-C1	1080031-C1
EGFR	DS-Hs-EGFR-C1	1080041-C1
MET	DS-Hs-MET-C1	1080051-C1
TP53	DS-Hs-TP53-C1	1080061-C1
CDKN2A	DS-Hs-CDKN2A-C1	1080071-C1
ALK	DS-Hs-ALK-BA5-C1	1080081-C1
ALK	DS-Hs-ALK-BA3-C2	1080091-C2
ROS1	DS-Hs-ROS1-BA5-C1	1080101-C1
ROS1	DS-Hs-ROS1-BA3-C2	1080111-C2
NTRK1	DS-Hs-NTRK1-BA5-C1	1080151-C1
NTRK1	DS-Hs-NTRK1-BA3-C2	1080161-C2
NTRK2	DS-Hs-NTRK2-BA5-C1	1080171-C1
NTRK2	DS-Hs-NTRK2-BA3-C2	1080181-C2
NTRK3	DS-Hs-NTRK3-BA5-C1	1080191-C1
NTRK3	DS-Hs-NTRK3-BA3-C2	1080201-C2