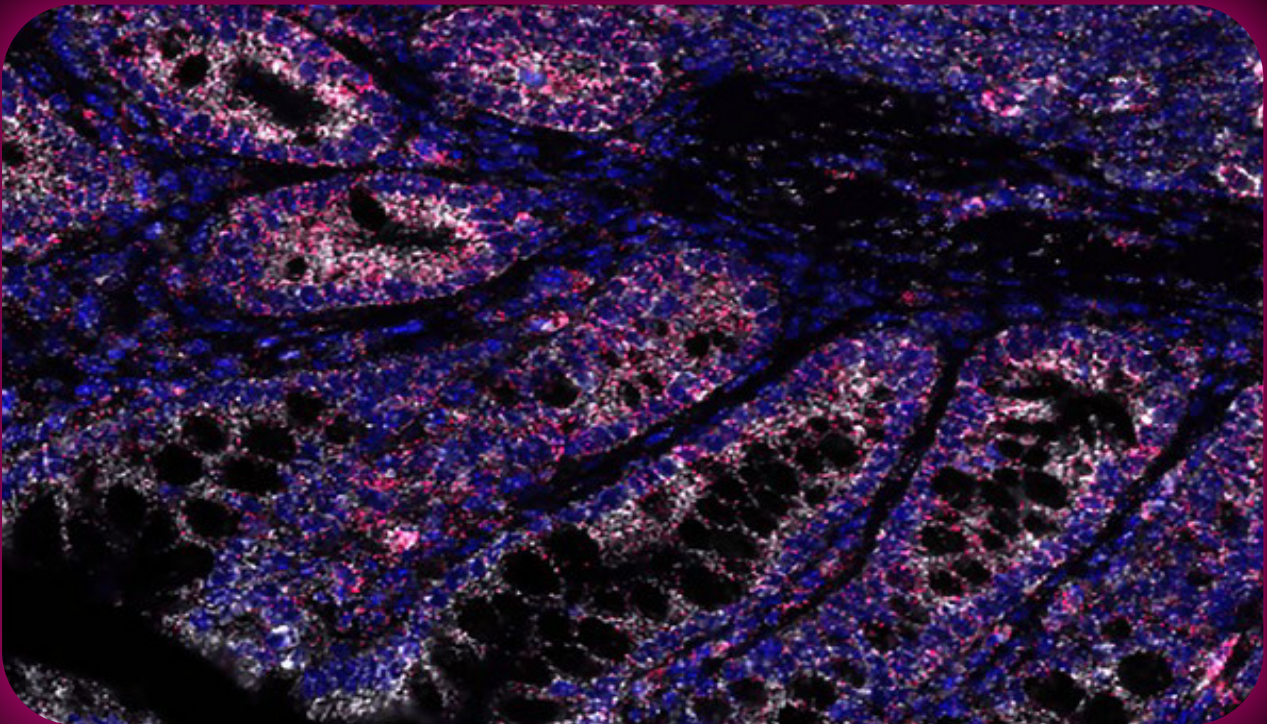


Beyond RNA : The New Era of Spatial Multiomics

**With RNAscopeTM in situ assays you can visualize
Any RNA, Any Species, Any Tissue**



독자적인 Probe Technology

✓ Sensitivity

20개의 이중 ZZ probe는 표적 RNA의 접근성이 제한되거나 일부 분해된 경우에도 안정적인 검출 성능 제공

✓ Specificity

이중 ZZ probe 디자인이 비특이적 결합 위치에서는 신호 증폭 방지

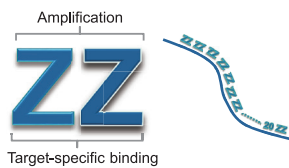
✓ Single Molecule Detection

독자적인 probe 설계 및 신호 증폭으로 단일 분자의 RNA를 signal dot으로 시각화

✓ Degraded Sample Compatible

부분적으로 degradation 된 RNA의 짧은 영역도 probe 설계 가능

RNAscope™, BaseScope™, and miRNAscope™ Assay Comparison



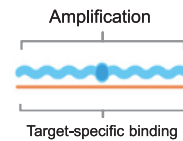
RNAscope™ Probe

- ~ 20 ZZ pairs per target
- mRNA or lncRNA target (> 300 nt)
- Single molecule detection
- 1-plex or 2-plex chromogenic
- 4-plex or 12-plex fluorescence
- Automated and manual



BaseScope™ Probe

- 1 ZZ pair (or 3 ZZ)
- 50 ~ 300 bp target sequence
- Single molecule detection
- Exon junction, highly homologous or short sequences, point mutations, Indels, Gene Fusions
- 1-plex or 2-plex chromogenic

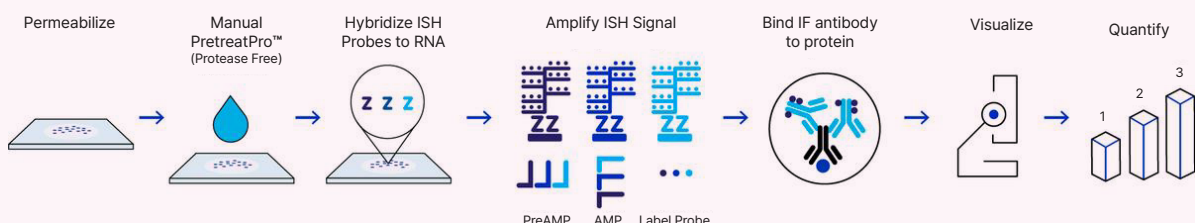
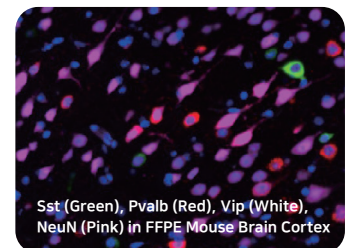


miRNAscope™ Probe

- ASOs, miRNAs, siRNAs and other small RNA sequences (17 ~ 50 nt)
- Single molecule detection
- 1-plex chromogenic
- 1 small RNA and 3 mRNAs fluorescence
- Automated and manual

RNA-Protein Co-detection

- IHC 검증 항체와 RNA를 동일한 조직 절편에서 동시에 검출
- Protease Free 워크플로우 도입하여 항원의 안정성과 형태 보존
- 기존 RNAscope™ Multiplex Fluorescent V2 프로토콜과 원활한 통합



Any Gene, Any Species, Any Tissue



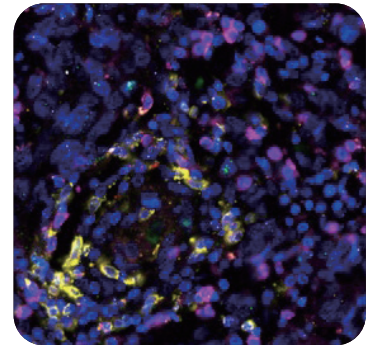
Target 찾아보기



- 80,000개 이상의 probe 보유
- 2주 안에 custom probe 제작 가능

RNAscope™ Automated Assay (BOND RX, DISCOVERY ULTRA 호환)

- 수작업 오차를 배제한 자동 전처리 및 염색 공정으로 데이터의 신뢰도 극대화
- Hands-on Time을 최소화하여 대규모 샘플 분석의 생산성 향상
- RNAscope™ Multiomic LS Assay :
동일 조직 내에서 단백질과 RNA 동시 검출
- ProximityScope™ Assay : 기능성 단백질 상호작용 (PPI) 시각화



Professional Assay Service

Expert ISH and Image Analysis Services

ACD 사의 전문 분석 서비스는 GCLP
(Good clinical laboratory practice) 준수하는
RNAscope™, BaseScope™ 및 miRNAscope™ ISH
(in situ hybridization) 분석 서비스 제공

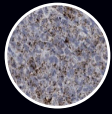
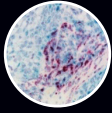
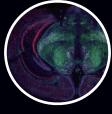
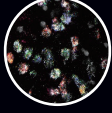
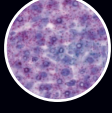
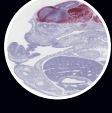
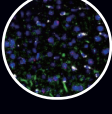
- 학술 및 생물 약제 파트너를 위한
임상 및 전임상 연구 지원
- 전문 분석 서비스는 이미지 분석 전문가, 병리학자,
기술 개발자가 직접 탁월한 전문 지식을 제공하고
연구 목표와 일정을 충족하도록 지원



Services 보기



Selection guide

	Assay type	Plexing offered	Dye used	Channel	Available platform
 RNAscope™ HD BROWN or Red	Chromogenic	Single plex	DAB-HRP or Green-HRP	Channel 1	Manual, Leica Bond Rx, Ventana DISCOVERY ULTRA
 RNAscope™ Duplex	Chromogenic	Duplex	Green-HRP Fast Red-ALP	Channel 1, 2	Manual, Leica Bond Rx, Ventana DISCOVERY ULTRA
 RNAscope™ Multiplex Fluorescent (V2)	Fluorescent	4-plex	TSA Plus / Opal dyes	Channel 1, 2, 3, 4	Manual, Leica Bond Rx
 RNAscope™ Hplex (V2)	Fluorescent	12-plex	Alexa 488, Atto 550, Atto 647	Tail 1, 2, ..., 12	Manual
 BaseScope™	Chromogenic	Single plex	Fast Red-ALP	Channel 1	Manual, Leica Bond Rx, Ventana DISCOVERY ULTRA
 BaseScope™ Duplex	Chromogenic	Duplex	Green-HRP Fast Red-ALP	Channel 1, 2	Manual
 miRNAscope™	Chromogenic	Single plex	Fast Red-ALP	Channel S1	Manual, Leica Bond Rx
 RNAscope™ Plus smRNA-RNA	Fluorescent	4-plex	TSA Plus / Opal dyes	Channel S1, 2, 3, 4	Manual

Applications

We are supporting a broad range of pre-clinical and clinical applications in every therapeutic area including :

Cell Therapy	RNA Protein Co Detection Assays	Companion Diagnostics	Drug Safety Testing	Gene Therapy
Biomarker Development & Validation	Cancer	Immuno-Oncology	Neuroscience	Other Applications