

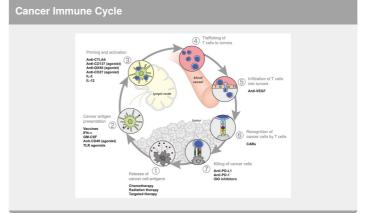
# Immuno-oncology Cheat Sheet by ACD Marketing Team (ACD Marketing) via cheatography.com/36805/cs/11595/

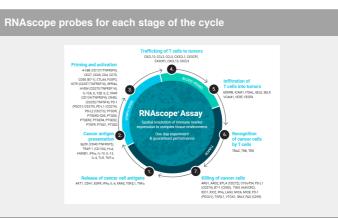
## One minute pitch

RNAscope(R) ISH is the only technology delivering sensitive and specific multiplex detection of any checkpoint marker, in complex tumor environment enabling a better understanding of the tumor/stroma/immune system interaction.

#### Concept - Immuno-oncology Immuno-Branch of immunology that studies interactions between the immune system and cancer cells oncology Cancer The cancer immunity cycle describes a process of how Immune one's own immune system can protect the body against cancer. When performing optimally, the cycle is self-Cycle sustaining. See image below. Immune Immune checkpoint markers are molecules in the immune Checkpoint system that either turn up a signal or turn down the cancer Marker immunity cycle. PDL1-PD1 Most widely known and studied checkpoint marker. Known to turn down the immune response (pregnancy). Used by cancer to escape the immune cycle. Immuno-Use of the immune system to re-establish an efficient cancer immune cycle to treat cancer. Include checkpoint marker therapy

therapy, CAR-T cell therapy, therapeutic antibodies, etc





### Questions to ask

Are you looking to measure the expression of different checkpoint markers in the tumor?

We can provide an assay (with high sensitivity and specificity) for any checkpoint marker in 2 weeks

Are you looking to measure the infiltration of the immune cell in to the tumor?

RNAscope ISH allows to visualize which genes are expressed, localize where they are expressed, and quantify the level of expression.

Do you want to multiplex your assays?

Unlike IHC, RNAscope multiplex ISH requires minimum optimization and can be achieve in few days. Note also that RNAscope ISH can easily be combined with IHC



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## Research Challenges and RNAscope Key Benefits

Morphol ogical context

Cancer tissues are non-uniform and extremely complex structure. Analysis in the context provide unique information to better understand the complex and dynamic relationship between the immune system, the tumor(s) and the environment. While many biomarker analysis technologies are available, most do not provide spatial and cell type-specific information critical for assessing the specific immune cell types with lineage and functional information in the evolving microenvironment of each tumor.

Antibody specificit RNAscope provides specific and sensitive assay for any target gene and is the ideal tool to validate IHC results

у

Blurry Pur IHC

Punctuate dot, easy to read

Multiplex ing optimizat ion

staining

Multiplexing capabilities are highly desirable in order to obtain comprehensive single cell-level co-expression information and to maximize the use of limited biopsied sample material.

Multiplex capability up to 4 targets without extensive optimization (few days versus weeks or months for IHC)

## **Competitor product**

IHC - limited by antibody availability, lack of specificity and long/difficult multiplex optimization

Profiling technology like Nanostring that allows analysis of multi-gene expression signatures. Limitation: lack of morphological context.

## Recommanded products - Academic

RNAscope® Fluorescent Multiplex (320850) for fresh & fixed frozen C1/C3: stronger channel (low expres sor), C2: slightly weaker channel

RNAscope® Multiplex Fluorescent v2 (323110) up to 4 targets, but ideal for FFPE, 4-plex: They need 4-Plex Ancillary Kit (323120)

RNAscope® 2.5 HD Duplex Reagent Kit (322430)

### Recommanded products - Biopharma

RNAscope® LS Multiplex Fluorescent Assay

RNAscope® 2.5 LS Duplex Assay

RNAscope® Fluorescent Multiplex (320850) for fresh & fixed frozen C1/C3: stronger channel (low expres sor), C2: slightly weaker channel

RNAscope® Multiplex Fluorescent v2 (323110) up to 4 targets, but ideal for FFPE, 4-plex: They need 4-Plex Ancillary Kit (323120)

### Key tools/References

- App note & appendix
- Probe list
- Lung Cancer Study flyer
- Multitude of posters/Pubcrushs
- 3 min speech

Find everything in Showpad: Disease/area of research - Immuno-oncology: http://bit.ly/2q7rGHQ



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