TECHNOLOGY CREATES FUTURE

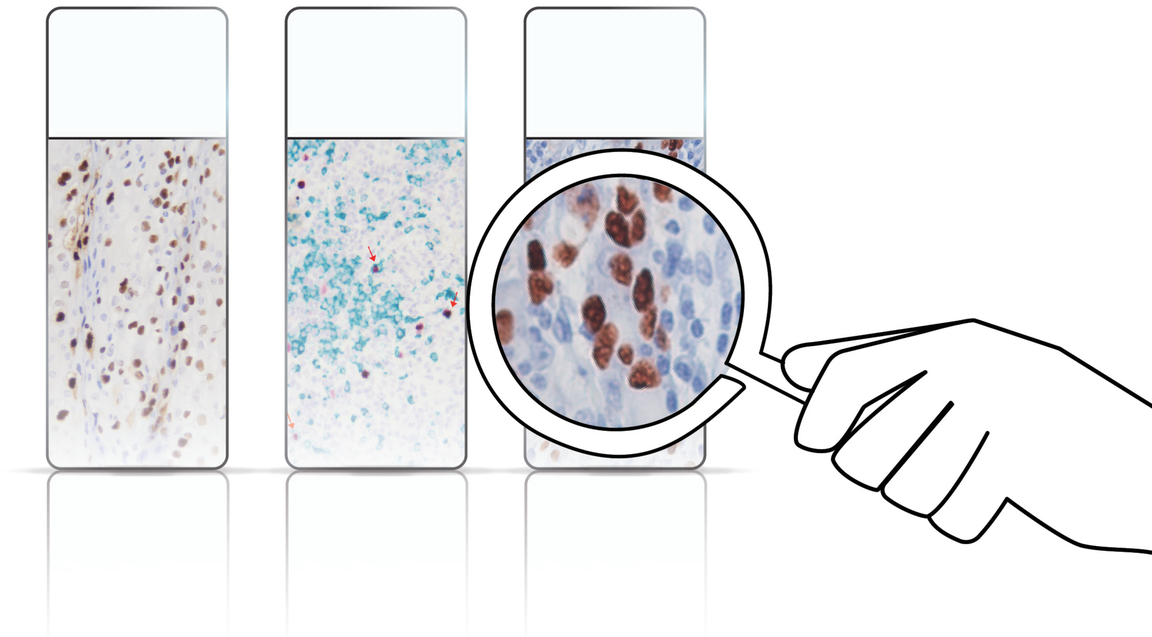
HONESTY BONDS PARTNERSHIP

CELNOVTE

Chromogenic In Situ Hybridization (CISH) Products

Next generation CISH Super-ISH

Cascade amplification system , cascade amplification system, superior sensitivity & specificity



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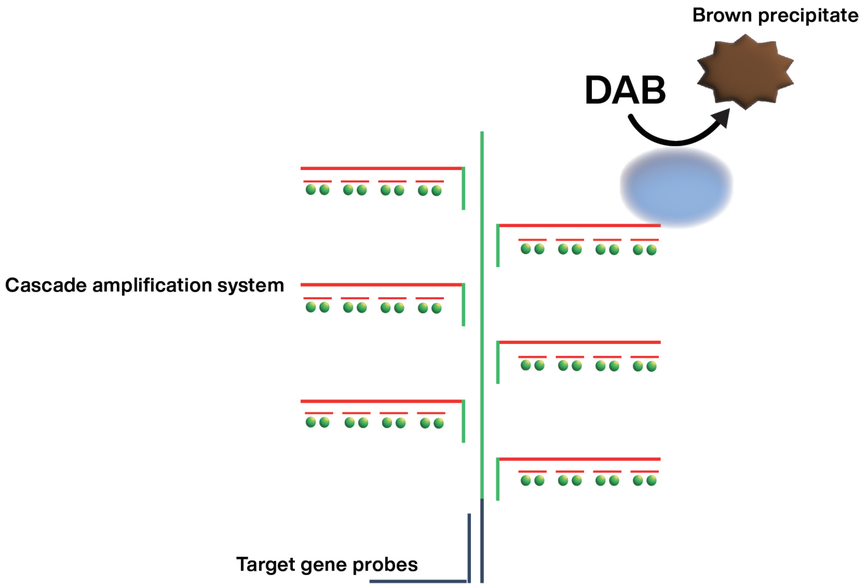
Chromogenic in situ hybridization has never been so simple

Chromogenic in situ hybridization (CISH) is a powerful technique that utilizes complementary base pairing to detect specific nucleic acid sequences within cells or tissues. By hybridizing nucleic acid probes labeled with specific markers, target molecules can be visualized under a brightfield microscope after undergoing a cascade color reaction. However, to achieve even greater sensitivity in detection,CELNOVTE has developed a new generation of CISH technology known as Super-SH. This innovative technique utilizes proprietary probe design and branched DNA signal amplification technology, which measures RNA/DNA directly from the sample source, without the need of RNA/DNA extraction and amplification. This method can achieve up to ~20, 000 fold amplification for each target molecule, without additional steps for the assay.

Super-ISH technology utilizes non-radioactive probes and a cascade signal amplification system, offering a unique, sensitive, and robust hybridization assay for RNA/DNA detection in tissue samples.



Super-ISH technology uses a non-radioactive probe and a cascade signal amplification detection system for more sensitive results.

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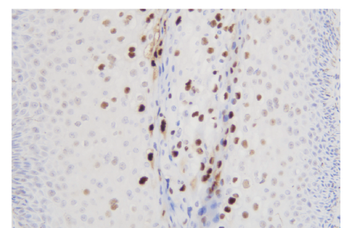
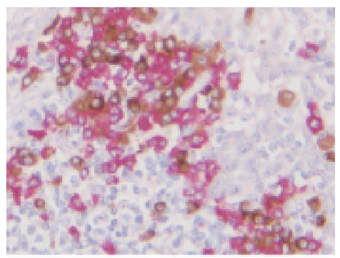
HPV CISH test

HPV (human papillomavirus) CISH test is helpful in differentiating between high-risk and low-risk HPV subtypes. High-risk HPV subtypes, such as HPV 16 and 18, are associated with intraepithelial neoplasia, which has an increased risk of developing into certain type of cancer, including cervical, anal, penile, vaginal, vulvar, and oropharyngeal cancers. HPV low-risk subtypes, on the other hand, are associated with the development of benign lesions, such as genital warts. Celnovte's HPV detection kits are based on Super-ISH technology, which offers superior sensitivity and signal-to-noise ratio compared to conventional CISH products.


HPV high-risk CISH Stain

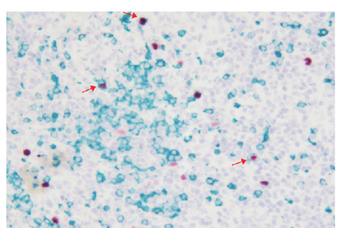
Innovative double stain | **Improved accuracy, 1 + 1 > 2** | **Save sample, more efficient**

kappa/lambda double stain



By using kappa/lambda CISH double stain to assess the expression of kappa and lambda light chains in plasma cells, clinicians can identify the presence of clonal populations of plasma cells and assess the kappa/lambda ratio. This helps to differentiate reactive hyperplasia of lymph nodes from lymphoma. Compared to immunohistochemical technique, kappa/lambda CISH double stain come with higher sensitivity and specificity, and can reduce interobserver variability and improve diagnostic accuracy.

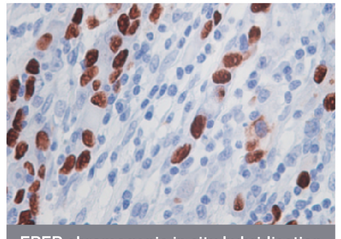
EBER/CD3 double stain


EBER CISH & CD3 IHC double stain

the EBER CISH/CD3 IHC double stain technique is a valuable tool in the diagnosis and management of lymphocyte diseases. The presence of EBER in tumor cells is a hallmark of EBV-associated lymphomas. And the double-staining technique is especially helpful in identifying T lumphocytes with EBV infection. Also, it can provide additional diagnostic information and help to classify the lymphoma subtype.

EBER CISH test

EBER CISH is a highly sensitive and specific technique that detects EBER in-situ, which helps in the diagnosis of EBV-associated lymphomas, naso-pharyngeal carcinoma, lymphoepithelioma-like carcinoma, gastric cancer and HIV-associated smooth muscle tumors. EBER CISH is the gold standard to confirm the association between EBV and tumor, which makes it one of the most popular CISH techniques used in Pathology labs.



EBER chromogenic in situ hybridisation

	30 min	15 min	120 min	30 min	
Manual EBER < 3.5hr	Slide Prep.	Enzyme digestion	Probe hybridization	Detection	Slide mounting

Specific
Digoxigenin(DIG) labeling, optimized probe design.

Sensitive
Patented ultrasensitive detection system based on micropolymer.

Versatile
Suitable for FFPE samples and cell samples.

Stable
Validated by the mass adoption among prestigious tier-three hospitals in China.

Flexible
Fully automatic platform, customizable reagent options.

CELNOVTE

Compatible platform

Fully automated IHC and ISH staining platform, or medical grade in-situ hybridizer

CNT360

CNT330

CNT200

Reagent specification

Product Category	Product Name	Specification	Remark
EBER Probe	EBER detection kit (manual one-step) Upgraded version	25 Tests/50 Tests/100 Tests	< 3.5hr turnaround time
	EBER detection kit (Instrument)	25 Tests/50 Tests/100 Tests	
EBER & CD3 double-stain	EBER/CD3 double stain kit	25 Tests/50 Tests/100 Tests	
HPV Probe	HPV test kit (HPV-High Risk)	25 Tests/50 Tests	18 high risk types
	HPV test kit (HPV-Low Risk)	25 Tests/50 Tests	4 low risk types
CMV Probe	Cytomegalovirus (CMV) detection kit	25 Tests/50 Tests/100 Tests	
K/ λ chain probe	Kappa Chain detection kit	25 Tests/50 Tests/100 Tests	
	Lambda Chain detection kit	25 Tests/50 Tests/100 Tests	
K/ λ chain Double Stain	Kappa & Lambda Chain double stain kit	25 Tests/50 Tests/100 Tests	