



FlexISH®

Products for flexible FISH

Flexible FISH ERBB2 Testing

FlexISH®

Bringing *flexibility* to Your FISH



Simply Adapt the *Hybridization Time* to Your Needs

ZYTOVISION
Molecular diagnostics simplified

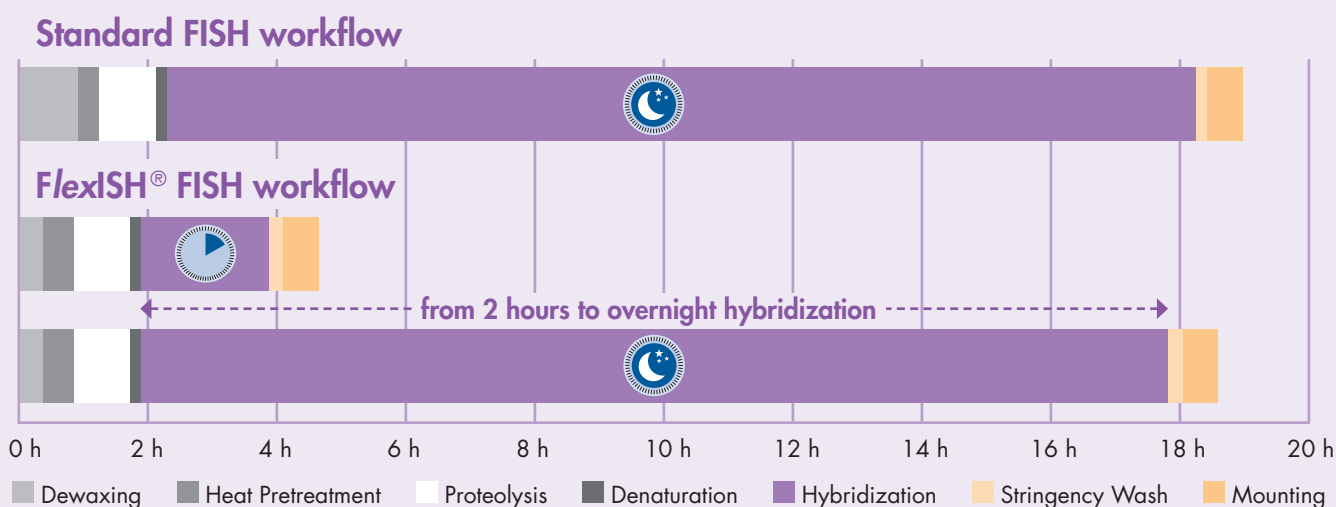
Importance of ERBB2 Testing

Breast cancer is the most commonly diagnosed cancer among women worldwide. It is estimated that 1.7 million new cases are diagnosed per year, accounting for 25 % of all new cancer cases in women¹.

The proto-oncogene ERBB2 is amplified in approximately 20 % of all breast cancers and is correlated with a poor prognosis². Breast cancer patients harboring ERBB2 amplification are addressed for a targeted therapy with trastuzumab (Herceptin®), a humanized monoclonal antibody directed against the extracellular portion of the ERBB2 protein. This treatment is associated with significantly prolonged overall survival and time of tumor progression³.

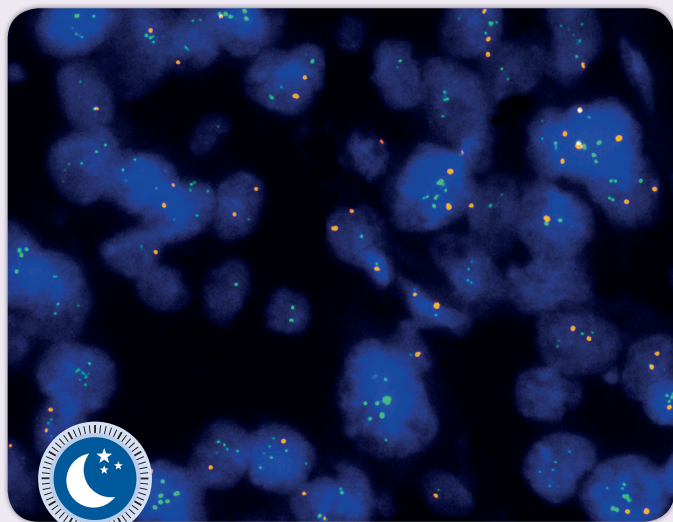
FlexISH® – Reliable ERBB2 Results obtainable in 1 Day!

With the use of the **FlexISH® ERBB2/CEN 17 Dual Color Probe** in combination with the **FlexISH®-Tissue Implementation Kit** reliable results can be obtained already within **4.5 hours**. The **FlexISH® protocol** can also be incorporated into the routine workflow with overnight hybridization providing the highest flexibility.



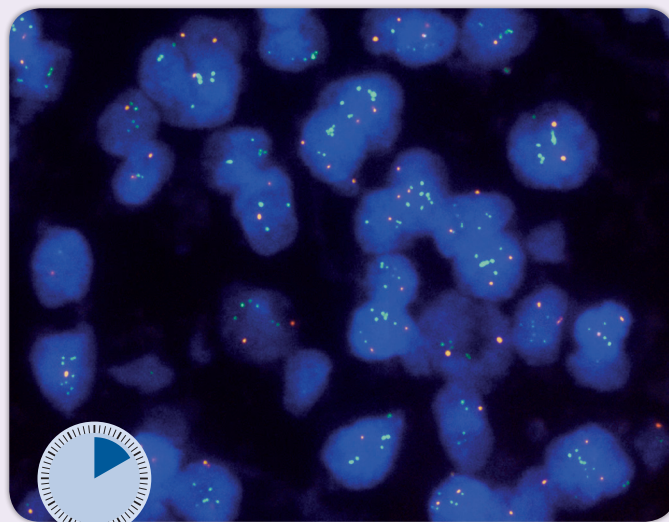
High-Quality FISH Results with flexible Hybridization Time

There is an excellent correlation between the FISH results obtained after overnight and short hybridization periods with regard to signal brightness, signal-to-noise ratio, and the diagnostic result⁴.



Hybridization time:
Overnight

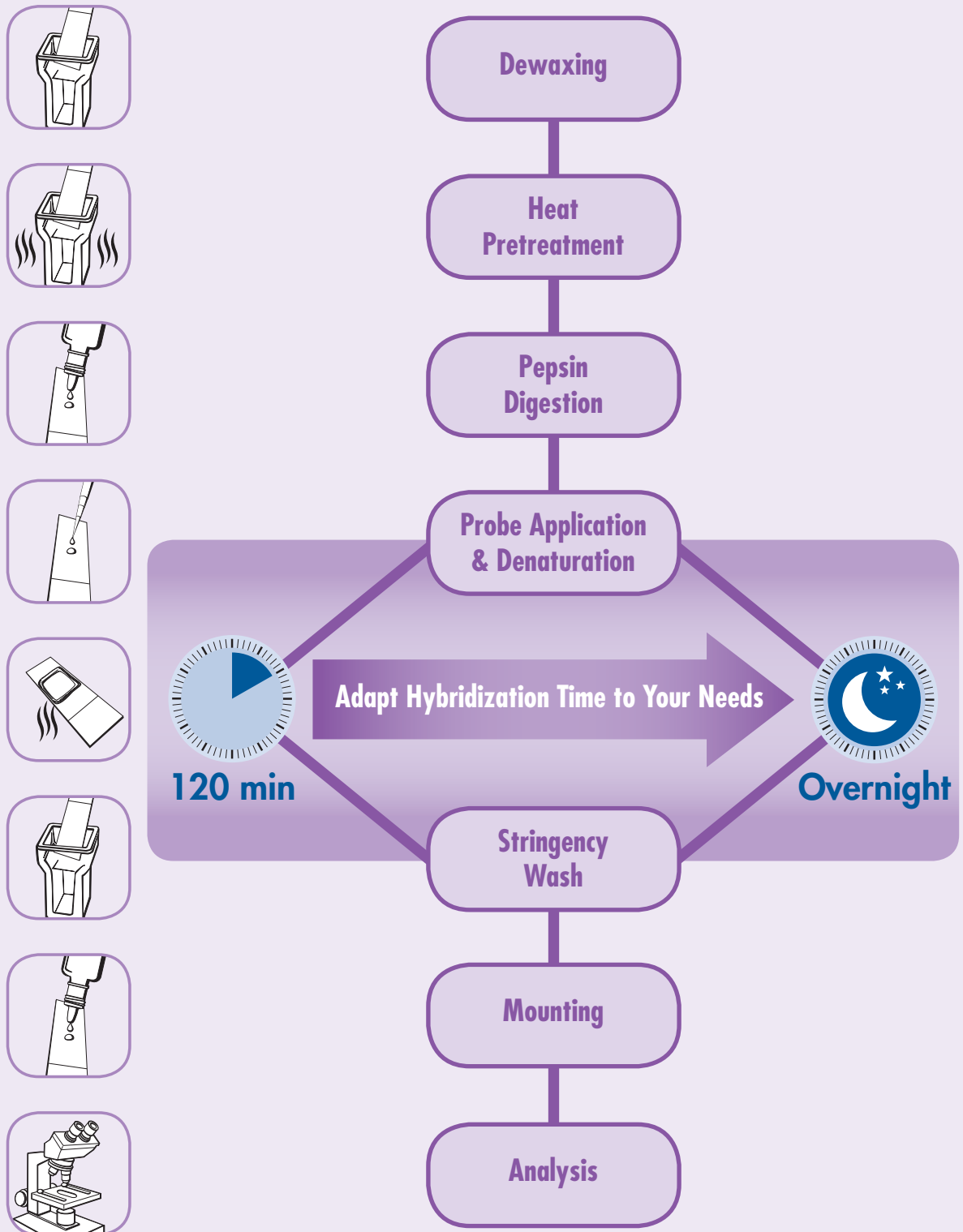
FlexISH ERBB2/CEN 17 Dual Color Probe



Hybridization time:
120 min

FlexISH ERBB2/CEN 17 Dual Color Probe

Workflow Schedule



FlexISH® brings Flexibility to Your FISH

- **FlexISH®** maximizes your flexibility in terms of time and laboratory management. Hybridization time can be varied between **2 hours** and **overnight**.
- With a hybridization temperature of 37°C the **FlexISH®** protocol is fully compatible with routine workflows in pathology laboratories.
- In a recent comparison study, overnight and short hybridization periods showed excellent correlation between the FISH results obtained with **FlexISH®**, **ZytoLight®**, and PathVysion ERBB2 probes⁴.
- Short hybridization time does not negatively affect the performance, specimen quality or diagnostic result⁴.

References

1. World Health Organization 2012: www.who.int/en (July 15, 2015).

2. Brown-Glabermann U, et al. (2014) *Oncology* (Williston Park) 28: 281-9.

3. Bourdeanu L & Luu T (2014) *J Adv Pract Oncol* 5: 246-60.

4. Brockhoff G, et al. (2016) *Histopathology* [Epub ahead of print].

FISH Protocols in Comparison

	ZytoLight®	Dako IQFISH	FlexISH®
Pretreatment	127 min	108 min	103 min
Denaturation	10 min at 75°C	10 min at 66°C	10 min at 75°C
Hybridization	overnight at 37°C	1-2 h at 45°C	flexible between 2 h and overnight at 37°C
Stringency Wash	5 min at 37°C 5 min at 37°C	10 min at 63°C 2x 3 min at RT	10 min at 72°C 3 min at RT
Dehydration & Mounting	33 min	36 min	33 min
Total Time	~ 19 h	~ 4 - 5 h	~ 4.5 h - 19 h

The indicated times include 15 min protease treatment, 15-30 min for the air drying steps, and 16 h for overnight incubation. All other times and temperatures are according to the respective instruction for use.

The FlexISH® protocol uses standard incubation temperatures and is thus fully compatible with routine workflows in pathology laboratories.

FlexISH® ERBB2/CEN 17 Dual Color Probe

Prod. No.	Product	Label	Tests* (Volume)
Z-2166-50	FlexISH ERBB2/CEN 17 Dual Color Probe CE IVD	●/●	5 (50 µl)
Z-2166-200	FlexISH ERBB2/CEN 17 Dual Color Probe CE IVD	●/●	20 (200 µl)
Related Products			
Z-2182-5	FlexISH-Tissue Implementation Kit CE IVD Incl. Heat Pretreatment Solution Citric, 150 ml; Pepsin Solution, 1 ml; 5x FlexISH Wash Buffer, 150 ml; DAPI/DuraTect-Solution, 0.2 ml		5
Z-2182-20	FlexISH-Tissue Implementation Kit CE IVD Incl. Heat Pretreatment Solution Citric, 500 ml; Pepsin Solution, 4 ml; 5x FlexISH Wash Buffer, 500 ml; DAPI/DuraTect-Solution, 0.8 ml		20

* Using 10 µl probe solution per test. CE IVD only available in certain countries. All other countries research use only! Please contact your local dealer for more information.

FlexISH®-Tissue Implementation Kit

FlexISH®-Tissue Implementation Kit contains all necessary reagents to perform successful and flexible FISH experiments.

- Heat Pretreatment Solution Citric
- Pepsin Solution
- 5x FlexISH® Wash Buffer
- DAPI/DuraTect™-Solution

