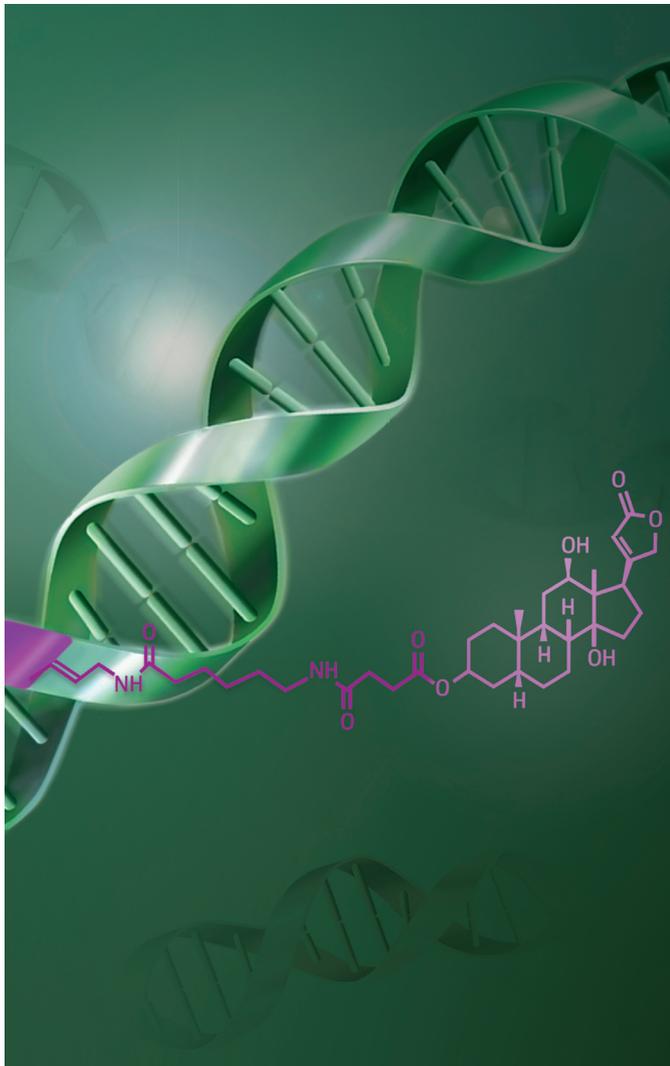


## DIG System for *In Situ* Hybridization

### *Specifically Label and Detect Nucleic Acids*

Meaningful results require high level specific detection and low background.

**Do your *in situ* hybridizations have nonspecific signals and high background?**



High specificity and sensitivity are why researchers worldwide choose the DIG System to detect nucleic acids for *in situ* hybridization. Robust established protocols produce low background and high signal-to-noise.

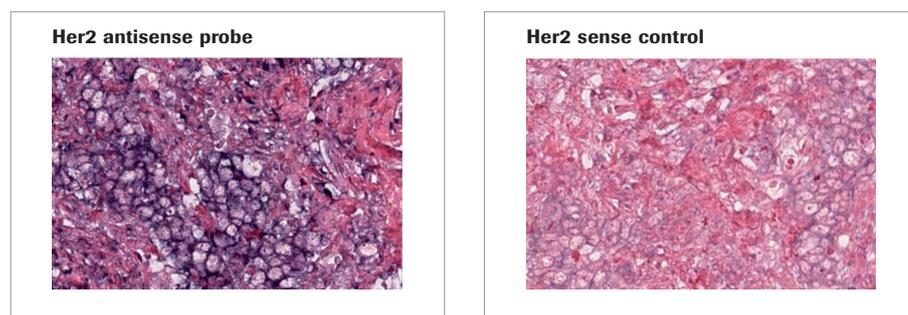
- **Specificity:** DIG antibodies do not bind other substrates and provide high sensitivity.
- **Ease-of-use:** PCR labeling using PCR and or *in vitro* transcription efficiently label your probe that can be stored for a year or longer!
- All DIG kits are quality control tested, and DNase and RNase free according to current quality procedures.

DIG-labeled RNA antisense probes are widely used for *in situ* hybridization due to their high sensitivity and specificity. Their stability for more than a year makes DIG-labeled probes ideal for long-term studies due to the resulting low level variation.

## Select the right DIG product for your *in situ* application.

Labeling	Immobilization	Hybridization and Detection
<b>Nick Translation</b> <ul style="list-style-type: none"> <li>Nick Translation Mix</li> <li>DIG-Nick Translation Mix</li> </ul> <b>PCR</b> <ul style="list-style-type: none"> <li>PCR DIG Probe Synthesis Kit</li> </ul> <b>In Vitro Transcription</b> <ul style="list-style-type: none"> <li>DIG RNA Labeling Kit (SP6/T7)</li> <li>DIG RNA Labeling Mix</li> </ul>	<b>Tissue Preparation</b> depending on your laboratory application <ul style="list-style-type: none"> <li>- FFPE</li> <li>- Fresh Frozen</li> <li>- Whole Mounts</li> <li>- Chromosome Spreads</li> </ul>	<ul style="list-style-type: none"> <li>DIG Wash and Block Buffer Set</li> <li>Anti DIG AP Antibody, Fab fragments</li> <li>Anti-Digoxigenin-Fluorescein, Fab fragments</li> <li>Anti-Digoxigenin-Rhodamine, Fab fragments</li> <li>Anti-Digoxigenin-POD, Fab fragments</li> <li>NBT/BCIP/HNPP</li> <li>POD conjugates</li> </ul>

### Her2 *in situ* hybridization



**Figure 1.** mRNA *in situ* hybridization staining of HGF transcripts in an FFPE tumor tissue section using DIG-labeled probes with the Ventana Discovery XT instrument (20 ng/ml DIG-labeled probes, hybridization at +66°C for 3 hours, with high stringency washes at +70°C).

### Ordering Information

Product	Catalog Number	Pack Size
DIG-Nick Translation Mix	11 745 816 910	160 µl for 40 labeling reactions
Nick Translation Mix	11 745 808 910	200 µl for 50 labeling reactions
PCR DIG Probe Synthesis Kit	11 636 090 910	25 reactions of 50 µl final reaction volume
DIG RNA Labeling Kit (SP6/T7)	11 175 025 910	1 kit for 2 × 10 labeling reactions
DIG Wash and Block Buffer Set	11 585 762 001	1 set
Anti-Digoxigenin-AP, Fab fragments	11 093 274 910	200 µl 150 U
Anti-Digoxigenin-Fluorescein, Fab fragments	11 207 741 910	200 µg
Anti-Digoxigenin-Rhodamine, Fab fragments	11 207 750 910	200 µg
Anti-Digoxigenin-POD, Fab fragments	11 207 733 910	150 U
BM Purple	11 442 074 001	100 ml
NBT/BCIP Stock Solution	11 681 451 001	8 ml
NBT/BCIP Ready-to-Use Tablets	11 697 471 001	20 tablets
HNPP Fluorescent Detection Set	11 758 888 001	1 set
Fast Red Tablets	11 496 549 001	20 tablets

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