DIG System for Filter Hybridization
Specifically Label and Detect Nucleic Acids

Meaningful results require high level specific detection and low background.

Do your hybridizations have nonspecific signals and high background?

High specificity and sensitivity are the reason, researchers worldwide choose the DIG System to detect nucleic acids using filter hybridization. Use DIG products in robust procedures with established protocols for low background and high signal-to-noise.

- **Specificity:** DIG antibodies do not bind other substrates and provide sensitivity that is comparable to radioactivity.

- **Streamline:** Ready-to-use labeling mixes and detection reagents use PCR and *in vitro* transcription to efficiently label your probe.

- All DIG kits are quality control tested for blot applications, and DNase and RNase free according to current quality procedures.

Biotin-avidin systems can produce low sensitivity due to high background. In contrast, DIG antibodies used to detect digoxigenin solely bind the DIG hapten, for higher specificity, low background, and high signal-to-noise.

For life science research only.
Not for use in diagnostic procedures.
DIG protocols of p53 study

Figure 1. DIG Northern blotting shows higher specificity and sensitivity than a comparable probe labeled with biotin. In this case, the DIG blot has the higher signal-to-noise ratio.

Select the right DIG product for your blotting application.

Labeling
- PCR
  - DIG Probe Synthesis Kit
  - DIG Northern Starter Kit
- In Vitro Transcription
  - DIG RNA Labeling Kit (SP6/T7)
  - DIG RNA Labeling Mix

Immobilization
- Nylon Membranes, positively charged
- Buffers in a Box
- Molecular Weight Marker, DIG-labeled (DNA or RNA)

Hybridization and Detection
- DIG Easy Hyb
- Hybridization Bags
- Actin RNA Probe Labeled DIG (as control)
- Anti-Digoxigenin-AP, Fab fragments
- CDP-Star, ready-to-use
- CDP-Star, ready-to-use NBT/BCIP
- DIG Wash and Block Buffer Set
- Lumi Film

Ordering Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog Number</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR DIG Probe Synthesis Kit</td>
<td>11 636 090 910</td>
<td>25 reactions of 50 µl final reaction volume</td>
</tr>
<tr>
<td>DIG Northern Starter Kit</td>
<td>12 039 672 910</td>
<td>10 labeling reactions and detection of 10 blots of 10 x 10 cm²</td>
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<tr>
<td>DIG RNA Labeling Kit (SP6/T7)</td>
<td>11 175 025 910</td>
<td>1 kit for 2 x 10 labeling reactions</td>
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<tr>
<td>DIG Gel Shift Kit, 2nd gen.</td>
<td>3 353 591 910</td>
<td>1 kit for 20 reactions</td>
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<tr>
<td>Hybridization Bags</td>
<td>11 666 649 001</td>
<td>50 bags</td>
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<tr>
<td>Nylon Membranes, positively charged</td>
<td>11 417 240 001</td>
<td>1 roll 0.3 x 3 m</td>
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<tr>
<td></td>
<td>11 209 299 001</td>
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<tr>
<td></td>
<td>11 209 272 001</td>
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<tr>
<td>DIG Easy Hyb</td>
<td>11 603 558 001</td>
<td>500 ml</td>
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<tr>
<td>DIG Easy Hyb Granules</td>
<td>11 796 895 001</td>
<td>granules for 6 x 100 ml</td>
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<tr>
<td>Actin RNA Probe, DIG labeled</td>
<td>11 498 045 910</td>
<td>2 µg; use as positive control</td>
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<tr>
<td>Anti-Digoxigenin-AP, Fab fragments</td>
<td>11 093 274 910</td>
<td>200 µl 150 U</td>
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<tr>
<td>CDP-Star, ready-to-use</td>
<td>12 041 677 001</td>
<td>2 x 50 ml</td>
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<tr>
<td>NBT/BCIP Ready-to-Use Tablets</td>
<td>11 697 471 001</td>
<td>20 tablets</td>
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<tr>
<td>DIG Wash and Block Buffer Set</td>
<td>11 585 762 001</td>
<td>1 set for approx. 30 blots</td>
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<tr>
<td>Lumi-Film Chemiluminescent Detection Film 7.1 x 9.4 inches, 18 x 24 cm</td>
<td>11 666 916 001</td>
<td>100 films</td>
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<tr>
<td>Lumi-Film Chemiluminescent Detection Film 8 x 10 inches, 20.3 x 25.4 cm</td>
<td>11 666 657 001</td>
<td>100 films</td>
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</table>

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For patent and licensing information regarding products referenced please go to the following URL and search by product: http://technical-support.roche.com

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