Anti-rabbit IgG (H+L) (DyLight™ 800 4X PEG Conjugate)

**Description:** Anti-rabbit IgG (H+L) was conjugated to DyLight™ 800 4X PEG fluorescent dye under optimal conditions and formulated at 1 mg/ml. Excitation is 777 nm and peak fluorescence emission is 794 nm.

**Background:** Near infrared anti-species IgG conjugates are ideal for fluorescent western blotting and In-Cell Western. Cell Signaling Technology’s strict quality control procedures assure that each conjugate provides optimal specificity and fluorescence.

This product has been optimized for use as a secondary antibody in fluorescent western blotting and In-Cell Western™.

**Specificity/Sensitivity:** Anti-rabbit IgG (H+L) (DyLight™ 800 4X PEG Conjugate) reacts with heavy and light chain of most rabbit immunoglobulins. No cross-reactivity to other serum proteins has been detected. This antibody may cross-react with immunoglobulins from other species.

**Source/Purification:** This antibody is prepared from goat immunoglobulins and purified by immunoaffinity chromatography using antigen coupled to agarose beads.

**Recommended Antibody Dilutions:**

- **In-Cell Western:** 1:1000
- **Fluorescent western blotting:** 1:30000

The optimal dilution of the anti-species antibody should be determined by the user. However, the final dilutions below should yield acceptable results for the respective applications.

- **Fluorescent western blotting:** 1.30000
- **In-Cell Western:** 1.1000

For application specific protocols please see the webpage for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

DyLight is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.

Odyssey is a registered trademark of LI-COR Biosciences.

In-Cell Western is a trademark of LI-COR Biosciences.

DRAQ5 is a registered trademark of Biotostatus Limited.

**Applications Key:**

- **Western**
- **Immunoprecipitation**
- **Immunohistochemistry**
- **Chromatin Immunoprecipitation**
- **Immunofluorescence**
- **Flow cytometry**
- **ELISA-Peptide**

**Species Cross-Reactivity Key:**

- **H—human**
- **M—mouse**
- **R—rat**
- **Mm—mouse**
- **Mi—mink**
- **C—chicken**
- **Dm—D. melanogaster**
- **X—Xenopus**
- **Z—zebrafish**
- **B—bovine**

**All—all species expected**

Western blot analysis of Jurkat cell lysates (#9194) treated with either U0126 (MEK 1/2 inhibitor) #9903 or TPA (12-O-Tetradecanoylphorbol-13-Acetate) #4174, using Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® Rabbit mAb #4370 detected with Anti-rabbit IgG (H+L) (DyLight™ 800 4X PEG Conjugate) (green) and p44/42 MAPK (Erk1/2) (3A7) Mouse mAb #9107 detected with Anti-mouse IgG (H+L) (DyLight™ 800 Conjugate) #5470 (red). The array image pixel intensities obtained using a LI-COR® Biosciences Odyssey® Infrared Imaging System are shown in the upper panel while corresponding fluorescent western blots are shown in the lower panel.

**Normilized Mean Fluorescence Intensity**

<table>
<thead>
<tr>
<th>U0126 (µM)</th>
<th>0</th>
<th>0.1</th>
<th>0.5</th>
<th>1</th>
<th>5</th>
<th>10</th>
<th>50</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Intensity (x10³)</td>
<td>45</td>
<td>40</td>
<td>35</td>
<td>30</td>
<td>25</td>
<td>20</td>
<td>15</td>
<td>10</td>
</tr>
</tbody>
</table>

**Storage:** Proprietary buffer. Store at 4°C. Protect from Light. Do not freeze.

**Applications Key:**

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**All—all species expected**

Species enclosed in parentheses are predicted to react based on 100% homology.