Store at 4°C

#5470

Anti-mouse IgG (H+L) (DyLight™ 680 Conjugate)

- ☐ Small 500 µl
- ☐ Petite 100 µl

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not For Use In Diagnostic Procedures.

Description: Anti-mouse IgG (H+L) was conjugated to DyLight™ 680 fluorescent dye under optimal conditions and formulated at 1 mg/ml. Excitation is 684 nm and peak fluorescence emission is 715 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-mouse IgG (H+L) (DyLight™ 680 Conjugate) reacts with heavy and light chain of most mouse 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 antibodies and purified by immunoaffinity chromatography using antigen coupled to agarose beads.

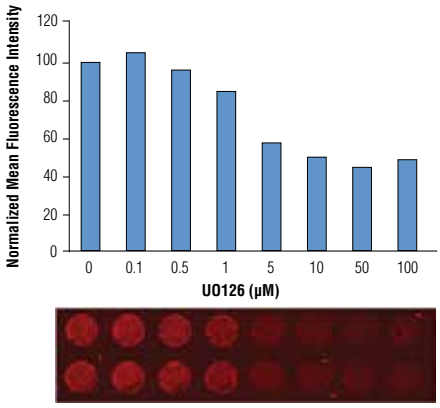
Storage: Supplied in 100 mM PBS, pH 7.2, containing 1% BSA and 0.02% sodium azide. Store at 4°C. Protect from Light. *Do not freeze.*

Recommended Antibody Dilutions:
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.

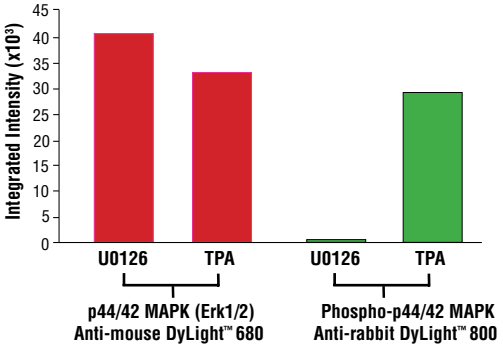
Fluorescent western blotting:	1:15000
In-Cell Western:	1:1000

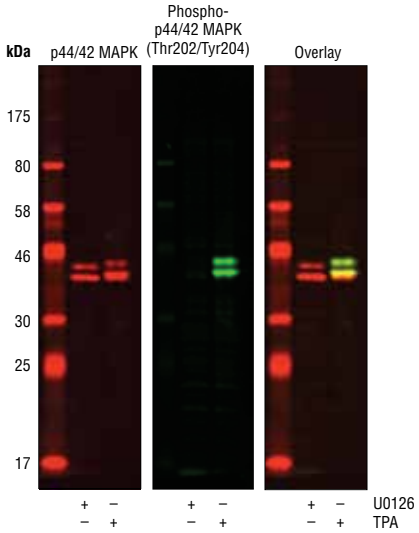
For application specific protocols please see the web page for this product at www.cellsignal.com.

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



In-Cell Western™ analysis of A549 cells exposed to varying concentrations of U0126 (MEK1/2 Inhibitor) #9903 for 3 hours, followed by TPA (Phorbol-12-Myristate-13-Acetate) #9905 stimulation for 30 minutes. With increasing concentrations of U0126, a significant decrease (~2.5 fold) in Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (E10) Mouse mAb #9106 signal as compared to the TPA-stimulated control was observed. Data and images were generated on the LI-COR® Biosciences Odyssey® Infrared Imaging System using Anti-mouse IgG (H+L) (DyLight™ 680 Conjugate).





◀ *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) (Thr202/204) (D13.14.4E) XP® Rabbit mAb #4370 detected with Anti-rabbit IgG (H+L) (DyLight™ 800 Conjugate) #5151 (green) and p44/42 MAPK (Erk1/2) (3A7) Mouse mAb #9107 detected with Anti-mouse IgG (H+L) (DyLight™ 680 Conjugate) (red). The array image pixel intensities obtained using a LI-COR® Biosciences Odyssey® Infrared Imaging System are shown in the top figure while corresponding fluorescent western blots are shown in the bottom figure.*

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.