

# SignalStain® DAB Substrate Kit

Small 1 Kit  
(1200 slides)

Petite 1 Kit  
(120 slides)



**Cell Signaling**  
TECHNOLOGY®

**Support:** +1-978-867-2388 (U.S.)  
cellsignal.com/support

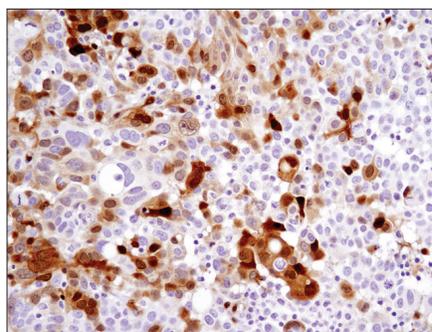
**Orders:** 877-616-2355 (U.S.)  
orders@cellsignal.com

**For Research Use Only. Not for Use in Diagnostic Procedures.**

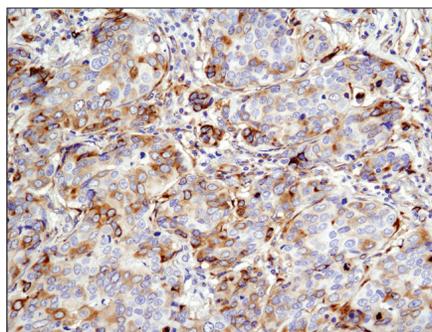
Products Included	Product #	Quantity
SignalStain® DAB Diluent	11724	Petite 12 mL Small 120 mL
SignalStain® DAB Chromogen Concentrate	11725	Petite 360 µl Small 3.6 mL

**Description:** The SignalStain® DAB Substrate Kit contains all of the necessary reagents to prepare a working solution of diaminobenzidine (DAB) for staining tissue sections. The DAB working solution reacts with peroxidase (HRP) detection systems such as the SignalStain® Boost IHC Detection Reagents (HRP, Rabbit #8114, HRP, Mouse #8125, HRP, Rat #72838, and HRP, Goat #63707), yielding a brown reaction product.

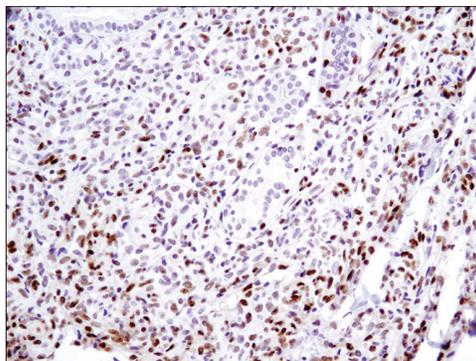
**Solutions and Reagents:** Each SignalStain® DAB Substrate Kit includes enough DAB Diluent and DAB Chromogen Concentrate to stain either 1200 (#8059S) or 120 (#8059P) slides.



Immunohistochemical analysis of paraffin-embedded human ovarian carcinoma using Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® Rabbit mAb #4370.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma using Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP® Rabbit mAb #4858.



Immunohistochemical analysis of paraffin-embedded human capillary hemangioma using Phospho-Stat3 (Tyr705) (D3A7) XP® Rabbit mAb #9145.

**Storage:** Substrate kit should be stored at 4°C, protected from light sources. Each kit is stable for 12 months upon receipt if the reagents are not combined.

**Directions for Use:** To prepare the DAB working solution, add 1 drop (30 µl) SignalStain® DAB Chromogen Concentrate to 1 ml SignalStain® DAB Diluent and mix well before use. Working solutions are stable for up to 14 days when stored at 4°C or up to 5 days when stored at room temperature (approximately 25°C). While the solution may change color over that time period, it will have no effect on the quality of the staining.

\*Please note that when using 8059P, a dropper for the chromogen concentrate is not included. Use a pipet to add 30 µl of SignalStain® DAB Chromogen Concentrate to 1 mL SignalStain® DAB Diluent.

After incubation with SignalStain® Boost IHC Detection Reagent or other HRP-based detection systems, wash slides and incubate with the working solution at room temperature until staining develops. 1-10 minutes generally provides an acceptable staining intensity.

Wash slides in water for 5 minutes.

Counterstain, if desired, and mount coverslips with either a permanent mounting media or an aqueous-based mounting media. Please note, permanent mounting requires dehydration through ethanol and clearing through xylene.

**Important:** DAB is a suspected carcinogen. Good laboratory practices should be followed, and appropriate protective equipment should be used when handling DAB, including gloves, protective eyewear, and a lab coat. Dispose in accordance with local regulations.

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**Applications:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry CHIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry FC-FP—Flow cytometry-Fixed/Permeabilized FC-L—Flow cytometry-Live E-P—ELISA-Peptide  
**Species Cross-Reactivity:** 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.