

Store at  
4°C

# SignalStain® Vibrant Red Alkaline Phosphatase Substrate Kit

#76713

1 Kit  
(1200 slides)



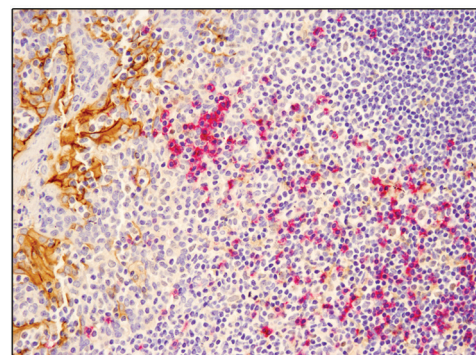
**Support:** +1-978-867-2388 (U.S.)  
cellsignal.com/support

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

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

Products Included	Product #	Quantity
SignalStain® Vibrant Red Diluent	88281	120 ml
SignalStain® Vibrant Red Reagent 1	28221	2.5 ml
SignalStain® Vibrant Red Reagent 2	52103	2.5 ml

**Description:** The SignalStain® Vibrant Red Alkaline Phosphatase Substrate Kit contains all of the necessary reagents to prepare a working solution of Vibrant Red for staining tissue sections. The Vibrant Red working solution reacts with alkaline phosphatase (AP) detection systems such as the SignalStain® Boost IHC Detection Reagents (AP, Rabbit #18653, AP, Mouse #31926, AP, Rat #15764, and AP, Goat #26927), yielding a heat stable, red reaction product that is also fluorescent.



Immunohistochemical analysis of paraffin-embedded human tonsil using CD8α (C8/144B) Mouse mAb (IHC Specific) #70306 (red) and PD-L1 (E1L3N®) XP® Rabbit mAb #13684 (brown). SignalStain® Boost IHC Detection Reagent (AP, Mouse) #31926 and SignalStain® Vibrant Red Alkaline Phosphatase Substrate Kit were used to detect CD8α (C8/144B) Mouse mAb (IHC Specific). SignalStain® Boost IHC Detection Reagent (HRP, Rabbit) #8114 and SignalStain® DAB Substrate Kit #8059 were used to detect PD-L1 (E1L3N®) XP® Rabbit mAb.

### Directions for Use:

1. To prepare the Vibrant Red working solution, to 5 ml SignalStain® Vibrant Red Diluent add 2 drops SignalStain® Vibrant Red Reagent 1 and 2 drops SignalStain® Vibrant Red Reagent 2. Mix well before use.
2. After incubation with SignalStain® Boost IHC Detection Reagent or other AP-based detection systems, wash slides and incubate with the working solution at room temperature for 20-30 minutes.
3. Wash slides in TBS-T for 5 minutes and then rinse slides in water. Counterstain, if desired.

Vibrant Red is compatible with permanent and aqueous mounting. Please note, permanent mounting requires dehydration through ethanol and clearing in xylene.

Optimal development times should be determined by the investigator. Working solutions should be used within 15 minutes of preparation. Do not heat Vibrant Red kit components or working solution.

The reaction product is also fluorescent and non-fading and can be viewed with TRITC filter systems.

Appropriate personal protective equipment should be worn when handling Vibrant Red. Dispose of in accordance with local regulations.

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

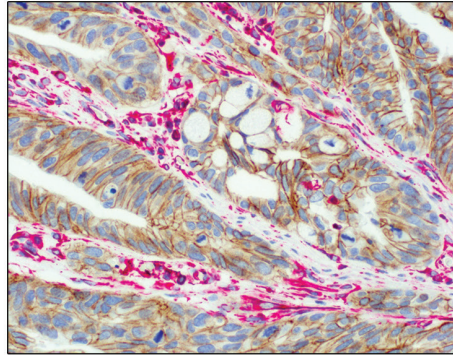
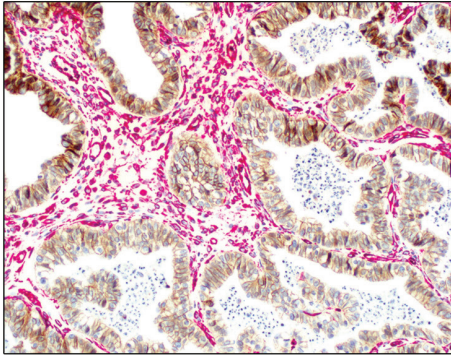
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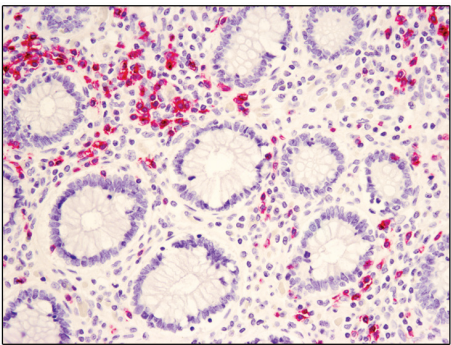
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**Applications:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry CHIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry FC-FP—Flow cytometry-Fixed/Permeabilized FC-L—Flow cytometry-Live E-P—ELISA-Peptide  
**Species Cross-Reactivity:**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



Immunohistochemical analysis of paraffin-embedded human ovarian carcinoma (left) and gastric adenocarcinoma (right) using Vimentin (D21H3) XP<sup>®</sup> Rabbit mAb #5741 (red) and E-Cadherin (4A2) Mouse mAb #14472 (brown).

SignalStain<sup>®</sup> Boost IHC Detection Reagent (AP, Rabbit) #18653 and SignalStain<sup>®</sup> Vibrant Red Alkaline Phosphatase Substrate Kit were used to detect Vimentin (D21H3) XP<sup>®</sup> Rabbit mAb. SignalStain<sup>®</sup> Boost IHC Detection Reagent (HRP, Mouse) #8125 and SignalStain<sup>®</sup> DAB Substrate Kit #8059 were used to detect E-Cadherin (4A2) Mouse mAb.



Immunohistochemical analysis of paraffin-embedded human colon using CD8α (D8A8Y) Rabbit mAb #85336.

Note: Detection was performed with SignalStain<sup>®</sup> Boost IHC Detection Reagent (AP, Rabbit) #18653 and SignalStain<sup>®</sup> Vibrant Red Alkaline Phosphatase Substrate Kit.