

Store at  
4°C

# SignalStain® Citrate Unmasking Solution (10X)



Cell Signaling  
TECHNOLOGY®

#14746

Small 125 ml  
Petite 25 ml

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

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

**Description:** SignalStain® Citrate Unmasking Solution (10X) is used for antigen unmasking of formalin fixed, paraffin-embedded tissue sections or cell pellets in immunohistochemical assays (IHC-P). Cell Signaling Technology recommends the optimal unmasking reagent for each IHC-P approved antibody. Please consult the primary antibody datasheet to determine if citrate is recommended for your specific product.

**Background:** Proteins within fixed tissue sections contain chemical cross-links that may prevent antibody access or mask antigen targets in immunohistochemical assays. This limited access may vary among different tissues or antigens. Heat-induced antigen unmasking improves accessibility of antibodies to tissue antigens (1).

### Background References:

(1) Yamashita, S. (2007) *Prog Histochem Cytochem* 41, 141-200.

**Storage:** Store 10X buffer at 4°C. At 10X, this buffer is stable for 12 months. Always prepare fresh 1X solutions daily.

**Directions for Use:** Dilute to a 1X unmasking solution using ddH<sub>2</sub>O just before use. Bring slides to a boil in 1X SignalStain® Citrate Unmasking Solution. Maintain at a sub-boiling temperature for 10 min. Cool slides on bench top for 30 min.

Antigen unmasking protocols utilizing a water bath are not recommended. While antigen unmasking performed with a microwave is preferred, the staining of particular tissues or antigen targets may require the use of a pressure cooker.

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**Applications:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry 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.