

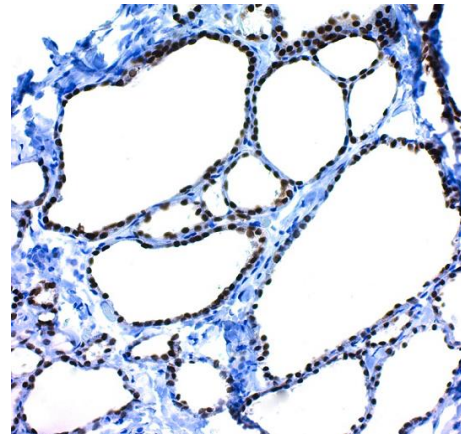
Citrate Plus (10X) HIER Solution

Description: Citrate Plus (10X) HIER Solution is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results we recommend the autoclave or pressure cooker.

Uses/Limitations: Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Use caution when handling reagent.
Non-Sterile.

Availability:	<u>Item #</u>	<u>Volume</u>
	CPL500	500ml
	CPL999120	1000ml

Storage: Store at 2-8°C. Solution is stable for 24 months after date of manufacture.
Do not re-use 1X working solution.




Human Thyroid stained with a TTF-1 antibody within an IHC procedure. Citrate Plus (10X) HIER Solution was used for antigen retrieval

Procedure: (Autoclave/Pressure Cooker).

1. Rehydrate tissue to Deionized Water.
2. In a glass or plastic (Autoclavable) Coplin jar, add 5 ml of Citrate Plus and 45 ml of deionized water. **Note:** Always make up a fresh 1X working solution per protocol. Do not re-use.
4. Submerge slides in diluted Citrate Plus and loosely cap.
5. Add Distilled water to bottom of Autoclave or Pressure Cooker (about 1 inch deep in Pressure Cooker).
6. Place Coplin jar in Pressure Cooker or Autoclave.
7. Turn heat on and allow pressure to rise to 20-25 PSI.
8. Maintain pressure at 20-25 PSI for 5 minutes.
9. Turn off heat source and allow to cool.
10. When pressure has dropped to ambient, carefully remove lid or open door.
11. Using tongs, remove Coplin Jar and place on counter.
12. Once Coplin Jar cools to room temperature remove slides, rinse several times in buffer and proceed with staining as usual.

Storage: 2° C  8° C

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Procedure: (Vegetable Steamer)

1. Rehydrate tissue to Deionized Water.
2. In a plastic Coplin jar, add 5 ml of Citrate Plus and 45 ml of deionized water. **Note:** Always make up a fresh 1X working solution per protocol. Do not re-use.
3. Loosely cap the coplin jar and place in a vegetable steamer for 15 minutes to heat solution (Prior to submersion of slides).
4. Carefully remove Coplin Jar and place on counter.
5. Once Coplin Jar cools to room temperature remove slides, rinse several times in buffer and proceed with staining as usual.

Product Specific Literature References:

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2. Contreras, G. Andres, Kyan Thelen, Nadia Ayala-Lopez, and Stephanie W. Watts. "The Distribution and Adipogenic Potential of Perivascular Adipose Tissue Adipocyte Progenitors Is Dependent on Sexual Dimorphism and Vessel Location." *Physiological Reports* 4, no. 19 (October 2016): e12993. <https://doi.org/10.14814/phy2.12993>.
3. Geekiyanage, Hirosha, Aditi Upadhye, and Christina Chan. "Inhibition of Serine Palmitoyltransferase Reduces A β and Tau Hyperphosphorylation in a Murine Model: A Safe Therapeutic Strategy for Alzheimer's Disease." *Neurobiology of Aging* 34, no. 8 (August 1, 2013): 2037–51. <https://doi.org/10.1016/j.neurobiolaging.2013.02.001>.
4. Jadhav, Vaishnavi, Qianyi Luo, James M. Dominguez 2nd, Jude Al-Sabah, Brahim Chaqour, Maria B. Grant, and Ashay D. Bhatwadekar. "Per2-Mediated Vascular Dysfunction Is Caused by the Upregulation of the Connective Tissue Growth Factor (CTGF)." *PLOS ONE* 11, no. 9 (September 23, 2016): e0163367. <https://doi.org/10.1371/journal.pone.0163367>.
5. Van Vaerenbergh, Inge, Ramsey McIntire, Leentje Van Lommel, Paul Devroey, Linda Giudice, and Claire Bourgain. "Gene Expression during Successful Implantation in a Natural Cycle." *Fertility and Sterility* 93, no. 1 (January 1, 2010): 268.e15-268.e18. <https://doi.org/10.1016/j.fertnstert.2009.08.057>.

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