

Biotin Blocking Kit

Description: Biotin Blocking Kit has been developed to use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous biotin. Biotin is a coenzyme of decarboxylase. It is present in many tissues, such as liver, pancreas, kidney, and intestine. Endogenous biotin can interfere with staining systems that employ the use of biotin. This product is designed to effectively eliminate the interfering tendencies of endogenous biotin.

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.

Control Tissue: Tissue known to exhibit high levels of endogenous biotin. May be liver, pancreas, kidney, and intestine.

No Biotin Block

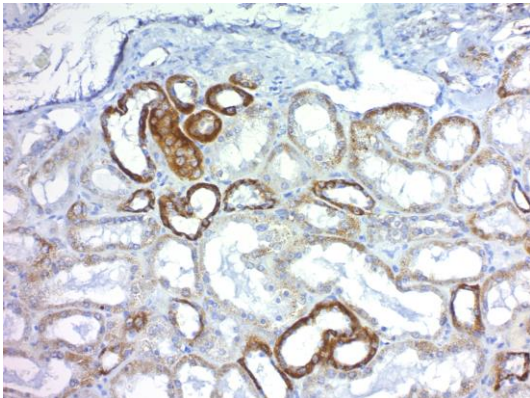


Figure 1. Endogenous biotin detected in human kidney by incubating in HRP-streptavidin followed by a DAB chromogen. No Antibodies were used.

Using Biotin Block

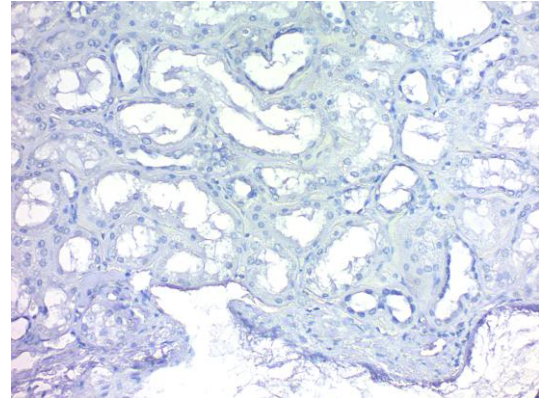




Figure 2. Endogenous Biotin in a serial section of human kidney completely blocked. Subsequent incubation of HRP-streptavidin and chromogen was still performed.

Storage: 2° C  8° C

 ScyTek Laboratories, Inc.
205 South 600 West
Logan, UT 84321
435-755-9848
U.S.A.



Emergo Europe
Prinsessegracht 20
2514 AP The Hague, The Netherlands

Instructions For Use

BBK-IFU

Rev. Date: April 30, 2019

Revision: 4

Page 2 of 2

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com



Availability:	Item #	Volume
	BBK030	15mls each.
	BBK120	60mls each

Storage: Store both components at 2-8°C.**Procedure:**

1. Incubate tissue section with Biotin Block Part A (BBA) for 15 minutes at either room temperature or 37° C prior to application of the primary antibody.
2. Rinse twice in buffer.
3. Incubate tissue section with Biotin Block Part B (BBB) for 15 minutes at either room temperature or 37° C prior to application of the primary antibody.
4. Rinse twice in buffer.
5. Apply primary antibody and continue staining as usual.

Product Specific Literature References:

1. Wilhide, Michael E., James D. Feller, Birong Li, Ahmad Z. Mohamed, Brian Becknell, Ashley R. Jackson, Kirk M. McHugh, and Susan E. Ingraham. "Renal Epithelial MiR-205 Expression Correlates with Disease Severity in a Mouse Model of Congenital Obstructive Nephropathy." *Pediatric Research* 80, no. 4 (October 2016): 602-9. <https://doi.org/10.1038/pr.2016.121>.
2. Becknell, Brian, Ashley R. Carpenter, Jordan L. Allen, Michael E. Wilhide, Susan E. Ingraham, David S. Hains, and Kirk M. McHugh. "Molecular Basis of Renal Adaptation in a Murine Model of Congenital Obstructive Nephropathy." *PLOS ONE* 8, no. 9 (September 4, 2013): e72762. <https://doi.org/10.1371/journal.pone.0072762>.
3. Becknell, Brian, John David Spencer, Ashley R. Carpenter, Xi Chen, Aspinder Singh, Suzanne Ploeger, Jennifer Kline, et al. "Expression and Antimicrobial Function of Beta-Defensin 1 in the Lower Urinary Tract." *PLOS ONE* 8, no. 10 (October 21, 2013): e77714. <https://doi.org/10.1371/journal.pone.0077714>.
4. Spencer, John D., Andrew L. Schwaderer, Julianne D. DiRosario, Kirk M. McHugh, Glen McGillivray, Sheryl S. Justice, Ashley R. Carpenter, Peter B. Baker, Jürgen Harder, and David S. Hains. "Ribonuclease 7 Is a Potent Antimicrobial Peptide within the Human Urinary Tract." *Kidney International* 80, no. 2 (July 2, 2011): 174-80. <https://doi.org/10.1038/ki.2011.109>.

Storage: 2° C  8° C ScyTek Laboratories, Inc.
205 South 600 West
Logan, UT 84321
435-755-9848
U.S.A.

EC REP

Emergo Europe
Prinsessegracht 20
2514 AP The Hague, The Netherlands