

# Product Datasheet

## Cytokeratin 5/8 Antibody (RCK102) - BSA Free NBP1-97730

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NBP1-97730**

Cytokeratin 5/8 Antibody (RCK102) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	RCK102
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS, pH 7.2
<b>Product Description</b>	
<b>Description</b>	The antibody is shipped at ambient temperature and may be stored at 4C. For prolonged storage prepare appropriate aliquots and store at or below -20C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at 4C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.
<b>Host</b>	Mouse
<b>Gene ID</b>	3852
<b>Gene Symbol</b>	KRT5
<b>Species</b>	Human, Mouse, Rat, Porcine, Canine, Feline, Hamster, Rabbit
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
<b>Specificity/Sensitivity</b>	This antibody is a Cytokeratin antibody reacting with Cytokeratin 5 and Cytokeratin 8. This monoclonal antibody recognizes virtually all epithelial tissues and carcinomas.
<b>Immunogen</b>	Derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a Mouse immunized with Cytokeratins from a Human lung cancer cell line (MR21).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:100-1:1000, Flow Cytometry 1:100-1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:200, Immunohistochemistry-Frozen 1:100-1:200, CyTOF-ready



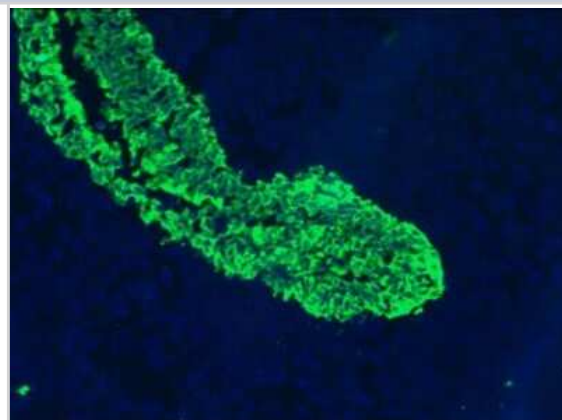
**Application Notes**

Optimal antibody dilution should be determined by titration; recommended range is 1:100 - 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.

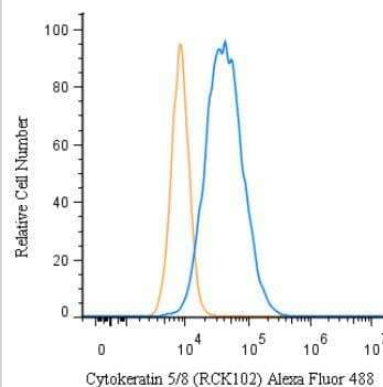
This antibody is CyTOF ready..

**Images**

Immunohistochemistry-Frozen: Cytokeratin 5/8 Antibody (RCK102) [NBP1-97730] - Frozen sections of human urinary bladder epithelium

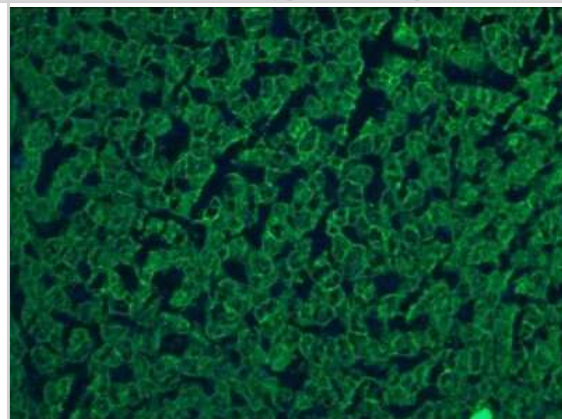


Flow Cytometry: Cytokeratin 5/8 Antibody (RCK102) [NBP1-97730] - An intracellular stain was performed on HeLa cells with Cytokeratin 5/8 (RCK102) antibody NBP1-97730AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.

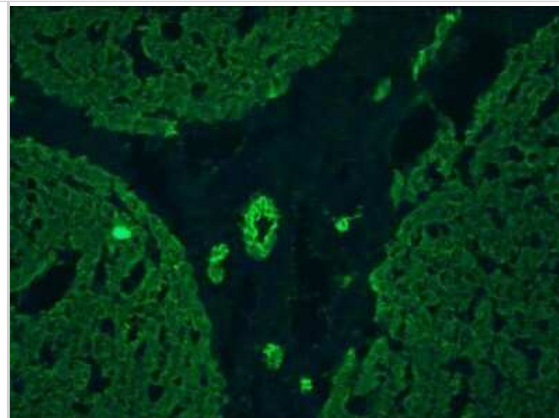


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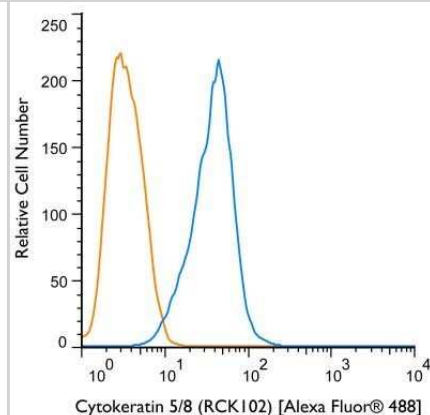
Immunohistochemistry-Frozen: Cytokeratin 5/8 Antibody (RCK102) [NBP1-97730] - Frozen sections of human liver hepatocytes



Immunohistochemistry-Frozen: Cytokeratin 5/8 Antibody (RCK102) [NBP1-97730] - Frozen sections of human liver hepatocytes and bile ducts



Flow Cytometry: Cytokeratin 5/8 Antibody (RCK102) [NBP1-97730] - Using the Alexa Fluor 488 direct conjugate An intracellular stain was performed on NTERA-2 cells with Cytokeratin 5/8 (RCK102) antibody NBP1-97730AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



## Publications

Zhang X, Jing H, Luo K Et al. Exosomes from 3T3-J2 promote expansion of tracheal basal cells to facilitate rapid epithelization of 3D-printed double-layer tissue engineered trachea Materials Science and Engineering: C 2021-10-01 [PMID: 34579890] (ICC/IF, Rabbit)

Gao B, Jing H, Gao M et al. Long-segmental Tracheal Reconstruction in Rabbits with Pedicled Tissue-engineered Trachea based on a 3D-printed Scaffold Acta Biomater 2019-07-25 [PMID: 31352107] (IHC-P, Rabbit)

Hayry V, Kagedal A, Hjalmarsson E et al. Rapid nodal staging of head and neck cancer surgical specimens with flow cytometric analysis. Br. J. Cancer 2017-11-21 [PMID: 29161240] (Mouse)



### Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA

Phone: 303.730.1950

Toll Free: 1.888.506.6887

Fax: 303.730.1966

[nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)

### Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada

Phone: 905.827.6400

Toll Free: 855.668.8722

Fax: 905.827.6402

[canada.inquires@bio-techne.com](mailto:canada.inquires@bio-techne.com)

### Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449

Free Phone: 0800 37 34 15

Fax: (44) (0) 1235 533420

[info.EMEA@bio-techne.com](mailto:info.EMEA@bio-techne.com)

### General Contact Information

[www.novusbio.com](http://www.novusbio.com)

Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)

Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)

General: [novus@novusbio.com](mailto:novus@novusbio.com)

### Products Related to NBP1-97730

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-97730AF488	Cytokeratin 5/8 Antibody (RCK102) [Alexa Fluor® 488]

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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