

# Product Datasheet

## Cytokeratin 19 Antibody (RCK108) - BSA Free NBP1-97712

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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**NBP1-97712**

Cytokeratin 19 Antibody (RCK108) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	RCK108
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS, pH 7.2
Product Description	
Description	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.
Host	Mouse
Gene ID	3880
Gene Symbol	KRT19
Species	Human, Rat, Zebrafish
Reactivity Notes	Rat reactivity reported in (PMID: 24466155).
Marker	Epithelial Cell Marker
Specificity/Sensitivity	This antibody reacts exclusively with Cytokeratin 19 which is present in glandular-type epithelia and most carcinomas. Does not react with hepatocytes and hepatocellular carcinoma.
Immunogen	Derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with a cytoskeletal preparation of human bladder carcinoma cell line T24.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	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

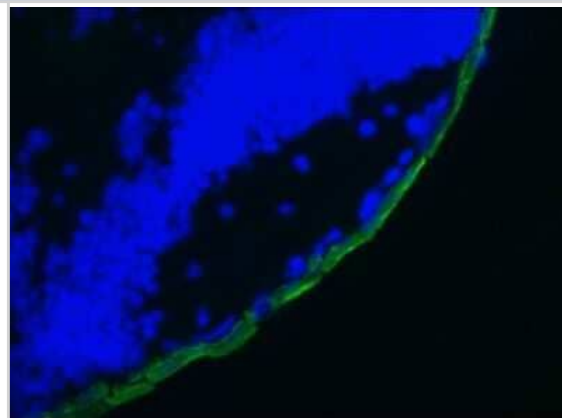
**Application Notes**

This antibody is particularly well suited for use in immunohistochemistry on paraffin-embedded tissues after pretreatment with microwave oven based antigen retrieval with distilled water. It is also useful for immunocytochemistry, immunohistochemistry on frozen sections, immunoblotting and flow cytometry. 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.

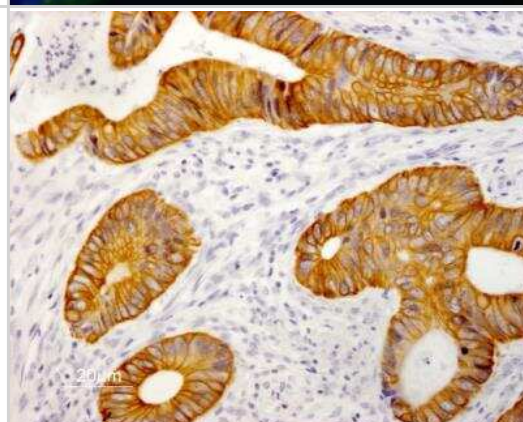
This antibody is CyTOF ready.

**Images**

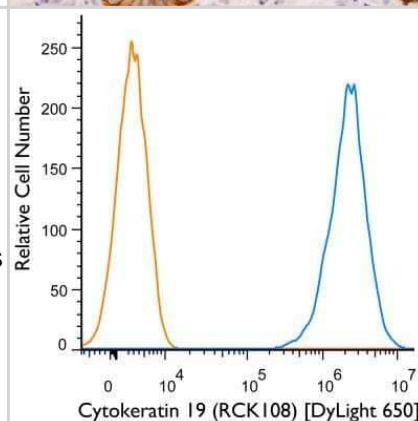
Immunocytochemistry/Immunofluorescence: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Staining of a 9 days old zebrafish embryo



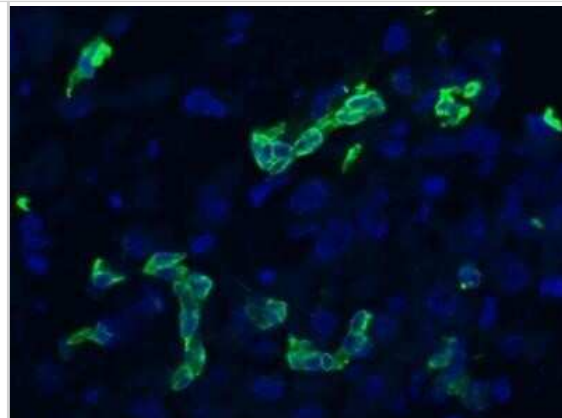
Immunohistochemistry-Paraffin: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Indirect immunoperoxidase staining of human colon adenocarcinoma paraffin tissue section with NBP1-97712 (RCK108; Mouse anti keratin 19). Dilution 1:50 and microwave pretreatment. Specific staining of the epithelial tumor cells. No reactivity in connective tissues.



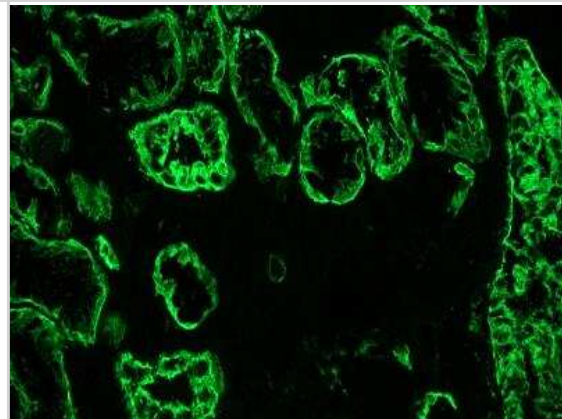
Flow Cytometry: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Flow Cytometry: Cytokeratin 19 Antibody (RCK108) [DyLight 650] [NBP1-97712C] - An intracellular stain was performed on HT-29 cells with Cytokeratin 19 (RCK108) NBP1-97712C (blue) and a matched isotype control NBP1-97005C (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 µg/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight650. Image using the DyLight 650 form of this antibody.



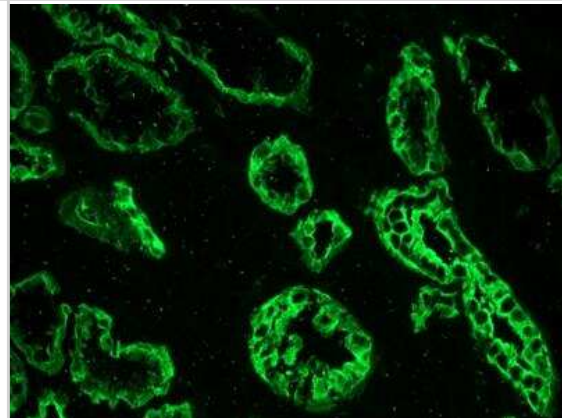
Immunohistochemistry-Frozen: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Analysis using the Unpurified version of NBP1-97712. Immunohistochemistry on frozen section of human liver bile duct epithelium



Immunohistochemistry-Frozen: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Immunohistochemistry on a frozen tissue sections of human kidney with NBP1-97712 (RCK108; dilution 1:500).



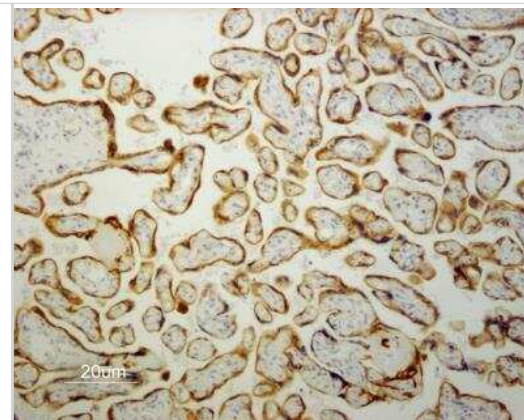
Immunohistochemistry-Frozen: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Immunohistochemistry on frozen tissue sections of human colon with NBP1-97712 (RCK108; dilution 1:500).



Immunohistochemistry-Paraffin: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Indirect immunoperoxidase staining of human small intestine paraffin tissue section with NBP1-97712 (RCK108; Mouse anti Cytokeratin 19). Dilution 1:50 and microwave pretreatment. Specific staining of the epithelial cells. No reactivity in the connective tissues.



Immunohistochemistry-Paraffin: Cytokeratin 19 Antibody (RCK108) [NBP1-97712] - Indirect immunoperoxidase staining of human placenta paraffin tissue section with NBP1-97712 (RCK108; Mouse anti Cytokeratin 19). Dilution 1:50 and microwave pretreatment. Specific staining of the epithelial cells. No reactivity in the connective tissues.



## Publications

Moore Keith, Ghatnekar Gautam, Gourdie Robert G et al. Impact of the controlled release of a connexin 43 peptide on corneal wound closure in an STZ model of type I diabetes. PloS One 2014-01-01 [PMID: 24466155] (WB, Rat)

### Details:

This citation used the Unpurified version of this antibody.

Handajani J, Hanindriyo L. Expression of Cytokeratin 19 in the epithelial cell of Azo-exposed buccal mucosa Med J Islam Repub Iran 2018-03-16 [PMID: 30159274] (IF/IHC, Human)

Moore K, Bryant ZJ, Ghatnekar G et al. A synthetic connexin 43 mimetic peptide augments corneal wound healing. Exp Eye Res. [PMID: 23876491] (IF/IHC, ICC/IF, Rat)

### Details:

Citation using the Unpurified form of this antibody.





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### **Products Related to NBP1-97712**

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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)
NB100-687PEP	Cytokeratin 19 Antibody Blocking Peptide

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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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