Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

Rev.: 2018/12/5

Cytokeratin 20
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

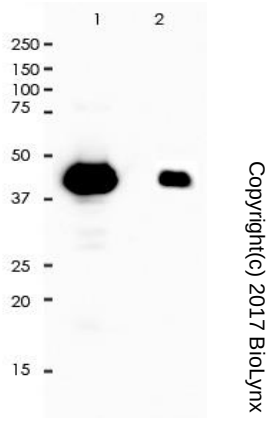
Catalog# BX00044
Clone# RR648

Predicted Molecular Wt: 49kDa
Species Cross-reactivity: Human
Species cross-reactivity determined by WB
Applications: WB IHC-P IP FC IF/ICC

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P35900

Background:

Cytokeratin 20 is a type I cytokeratin which is encoded by human KRT 20 gene. Cytokeratin 20 usually paired with cytokeratin 8 and remarkable expressed in gastric foveolar epithelium and small and large intestinal epithelium and, in addition, the urothelium and certain neuroendocrine cells, in particular Merkel cells of the skin.



All lanes: Anti-Cytokeratin 20 antibody at 1:5,000 dilution

Predicted MW: 49 kDa
Observed MW: 49 kDa

Lane 1: HCT-116
Lane 2: HT-29

Lysate at 10 µg per lane
2nd Ab:
G&R HRP(H+L) 1:10,000

Exposure: 120s

Immunogen:

A synthetic peptide corresponding to residues on the C-terminus of human Cytokeratin 20 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

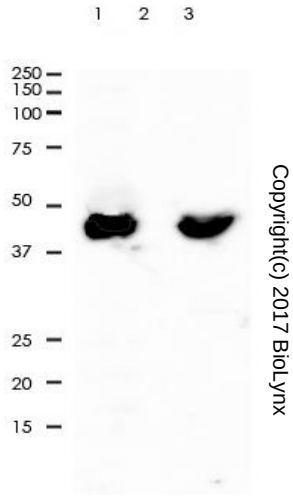
-20°C

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

WB:	1:5,000 - 1:20,000
IP:	1:50
IHC-P:	1:800 - 1:1,600
FC:	1:10 - 1:1,000
IF/ICC:	1:50 - 1:2,000



Anti-Cytokeratin 20 was immunoprecipitated from 0.5mg of HT-29 lysate with RR648 at 1:50 dilution.
2nd Ab:
G&R HRP for IP 1:500

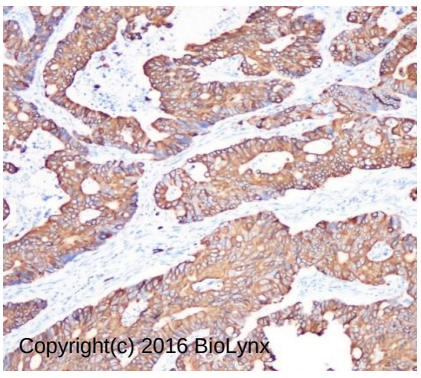
Lane 1: RR648 IP in HT-29 whole cell lysate
Lane 2: PBS instead of RR648 in HT-29 whole cell lysate Lane3: HT-29 whole cell lysate, 10 µg(input)

Exposure: 30s

Background References:

1. Scott MP, et.al, Am J Dermatopathol. 1999 Feb;21(1):16-20.

2. Moll R, et.al, Am J Pathol. 1992 Feb;140(2):427-47.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of colonic adenocarcinoma tissue labelling Cytokeratin 20 with with RR648 at 1:800. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

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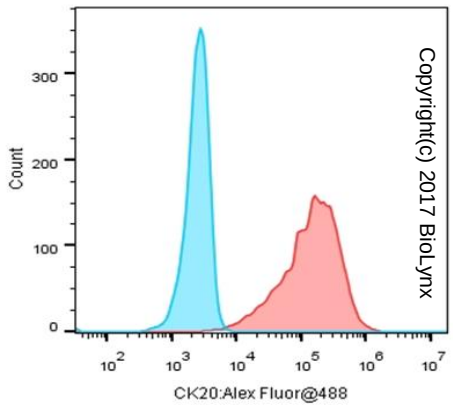

Overlay histogram showing HT-29 cells stained with RR648 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR648 , 1:1,000 dilution) in 1x PBS/1% BSA for 30 min at 4°C. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at 4°C. Unlabelled sample (Blue) was used as a control.

RR648 staining Cytokeratin 20 in HT-29 cells by IF/ICC (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:200) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500).

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.