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Type-II Cytokeratins Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX00092
Clone# RR696

Predicted Molecular Wt: 51-66kDa
Species Cross-reactivity: Human
Species cross-reactivity determined by WB
Applications: WB IHC-P FC

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P13647

Background:

There are two types of Cytokeratins: types I and II. The type I family is comprised of the acidic members, Cytokeratins 9-20, and the type II family is comprised of the basic to neutral members, Cytokeratins 1-8. The formation of intermediate filaments requires the pairing of at least one acidic and one Basic Cytokeratin. The genes encoding human type II/Basic Cytokeratins are located in a cluster on chromosome 12q. Relative to their type I partner, Basic Cytokeratins are initially expressed in differentiating epithelia.
This antibody can detect high molecular weight CK1, CK2, CK3, CK4, CK5, CK6, CK7 and CK8.

Immunogen:

A synthetic peptide corresponding to residues aa300-400 of human Type II Cytokeratins was used as an immunogen.

Storage Buffer:

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

Storage conditions:

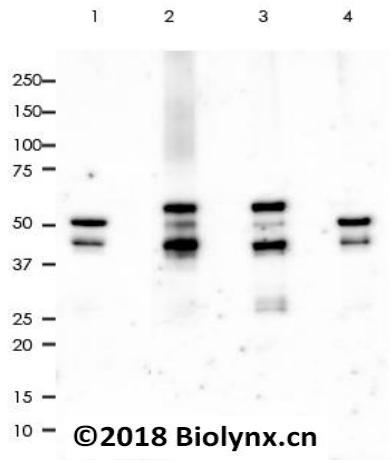
-20°C.

Storage instructions:

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

Recommended Dilutions:

WB:	1:5,000 - 1:10,000
IHC-P:	1:1,600 - 1:3,200
FC:	1:10 - 1:50



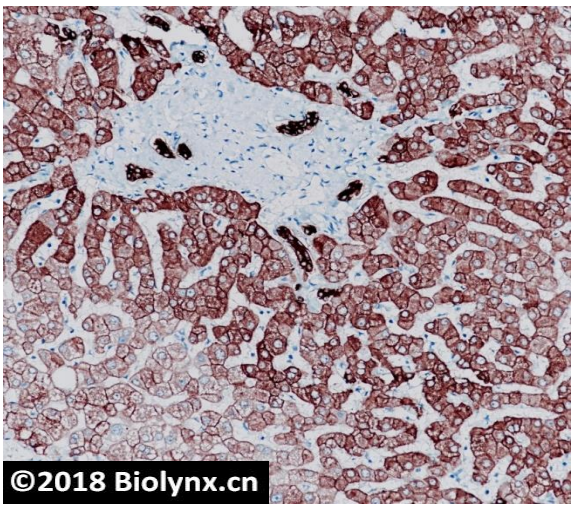
All lanes: Anti-Type-II Cytokeratins antibody at 1:10,000 dilution

Predicted MW: 51-66 kDa
Observed MW: 51-66 kDa

Lysates at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000

Lane 1: A549
Lane 2: SW480
Lane 3: HaCat
Lane 4: Caco-2

Exposure: 20s

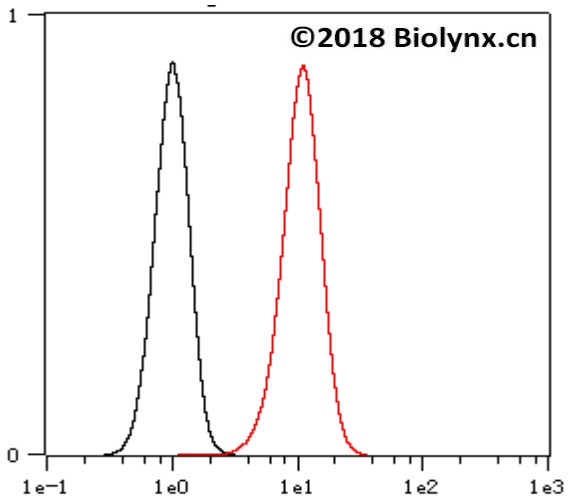


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue labelling Type-II Cytokeratins with RR696 at 1:1,600. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

Background References:

1. Li T et al. Oncol Lett 12:1129-1131 (2016).

2. Smirnova NF et al. Respir Res 17:83 (2016).



Overlay histogram showing Hela cells stained with RR696 (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 (RR696, 1:50 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.

Product QC'd by:

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