

Basic Information

Product Name	Anti-Cytokeratin 8/KRT8 Antibody	
Gene Name	KRT8	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	Polypeptide	
Concentration	500 ug/ml	
Observed MW	54 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

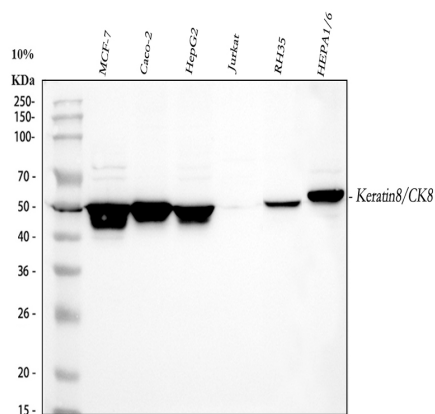
Background Information

This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene.

Reference

Anti-Cytokeratin 8/KRT8 Antibody被引用在5文献中。

Selected Validation Data



Western blot analysis of Cytokeratin 8/KRT8 using anti-Cytokeratin 8/KRT8 antibody (BA3152). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates,

Lane 2: human Caco-2 whole cell lysates,

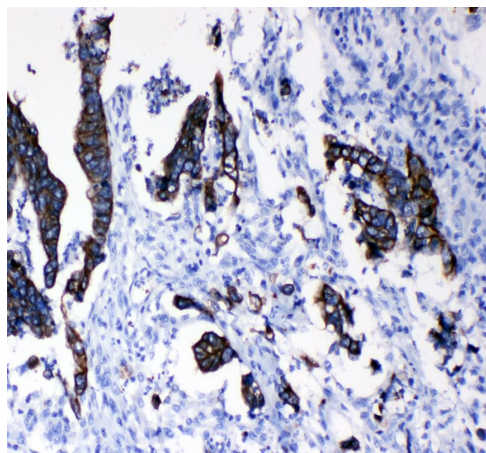
Lane 3: human HepG2 whole cell lysates,

Lane 4: human Jurkat whole cell lysates,

Lane 5: rat RH-35 whole cell lysates,

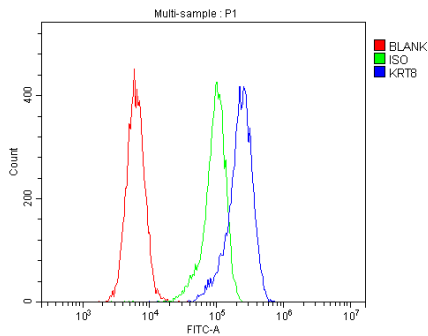
Lane 6: mouse Hepa1/6 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Cytokeratin 8/KRT8 antigen affinity purified polyclonal antibody (BA3152) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Cytokeratin 8/KRT8 at approximately 54 kDa. The expected band size for Cytokeratin 8/KRT8 is at 54 kDa.



IHC analysis of Cytokeratin 8/KRT8 using anti-Cytokeratin 8/KRT8 antibody (BA3152) .

Cytokeratin 8/KRT8 was detected in a paraffin-embedded section of human intestinal cancer tissue. The tissue section was incubated with rabbit anti-Cytokeratin 8/KRT8 Antibody (BA3152) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of Caco-2 cells using anti-Cytokeratin 8/KRT8 antibody (BA3152).

Overlay histogram showing Caco-2 cells stained with BA3152 (Blue line).

To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cytokeratin 8/KRT8 Antibody (BA3152) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample (Red line) was also used as a control.