

Basic Information

Product Name	Anti-Cytokeratin 19/KRT19 Antibody (Clone#3D4)	
Gene Name	KRT19	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG1	
Species Reactivity	human	
Tested Application	WB, IHC, IF	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Cytokeratin 19, different from the related mouse and rat sequences by nine amino acids.	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	44 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 (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.

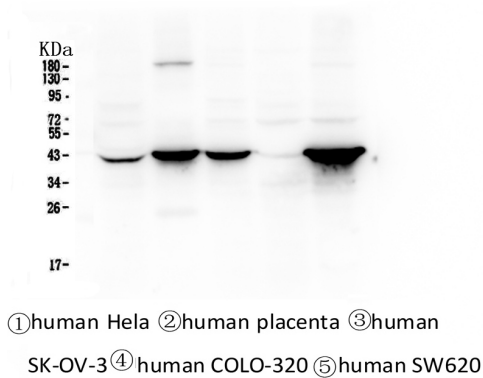
Background Information

Keratin, type I cytoskeletal 19 is a protein that in humans is encoded by the KRT19 gene. The protein encoded by this gene is a member of the keratin family. It is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. Due to its high sensitivity, KRT19 is the most used marker for the RT-PCR-mediated detection of tumor cells disseminated in lymph nodes, peripheral blood, and bone marrow of breast cancer patients. Keratin 19 is often used together with keratin 8 and keratin 18 to differentiate cells of epithelial origin from hematopoietic cells in tests that enumerate circulating tumor cells in blood.

Reference

Anti-Cytokeratin 19/KRT19 Antibody (Clone#3D4)被引用在2文献中。

Selected Validation Data



Western blot analysis of Cytokeratin 19/KRT19 using anti-Cytokeratin 19/KRT19 antibody (M02101-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

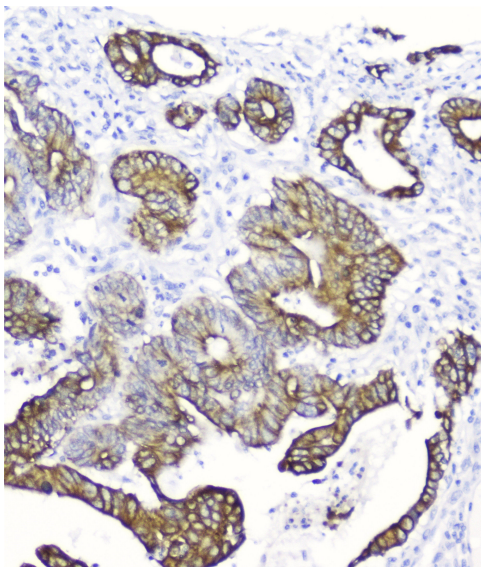
Lane 1: human Hela whole cell lysates,

Lane 2: human placenta tissue lysates,

Lane 3: human SK-OV-3 whole cell lysates,

Lane 4: human COLO-320 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Cytokeratin 19/KRT19 antigen affinity purified monoclonal antibody (M02101-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Cytokeratin 19/KRT19 at approximately 44 kDa. The expected band size for Cytokeratin 19/KRT19 is at 44 kDa.

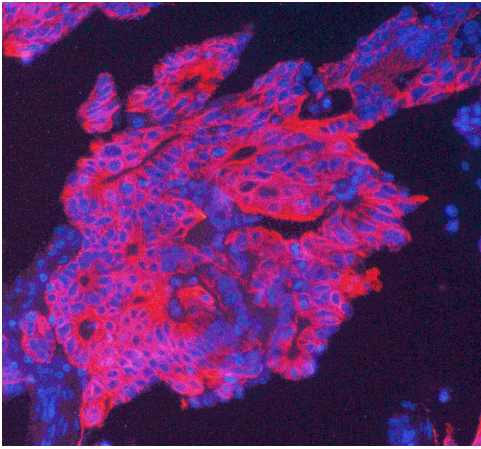


IHC analysis of Cytokeratin 19/KRT19 using anti-Cytokeratin 19/KRT19 antibody (M02101-2).

Cytokeratin 19/KRT19 was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-Cytokeratin 19/KRT19 Antibody (M02101-2) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.

Anti-Cytokeratin 19/KRT19 Antibody (Clone#3D4)

Catalog Number: M02101-2



IF analysis of Cytokeratin 19 using anti- Cytokeratin 19 antibody (M02101-2). Cytokeratin 19 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/mL mouse anti- Cytokeratin 19 Antibody (M02101-2) overnight at 4°C. DyLight550 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:200 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.