

## Basic Information

<b>Product Name</b>	Anti-Cytokeratin 19/KRT19 Antibody	
<b>Gene Name</b>	KRT19	
<b>Source</b>	Rabbit	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human	
<b>Tested Application</b>	WB, IHC, IHC-F, ICC	
<b>Contents</b>	500 ug/ml antibody with PBS , 0.02% Na <sub>3</sub> N , 1 mg BSA and 50% glycerol.	
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the C-terminus of human Cytokeratin 19(379-392aa YRSLLLEGQEDHYNN).	
<b>concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	44KD	
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section (IHC-F): 1:50-400 Immunocytochemistry: 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. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## 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.

## Selected Validation Data

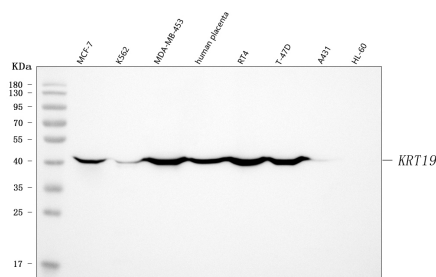


Figure 1. Western blot analysis of anti- KRT19 antibody (BA4154).

The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates,

Lane 2: human K562 whole cell lysates,

Lane 3: human MDA-MB-453 whole cell lysates,

Lane 4: human placenta tissue lysates,

Lane 5: human RT4 whole cell lysates,

Lane 6: human T-47D whole cell lysates,

Lane 7: human A431 whole cell lysates,

Lane 8: human HL-60 whole cell lysates.

Use rabbit anti- KRT19 1:1000, probed with a goat anti-rabbit IgG-

HRP secondary antibody. The signal is developed using an

Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002).

A specific band was detected for KRT19 at approximately 44KD. The

expected band size for KRT19 is at 44KD.

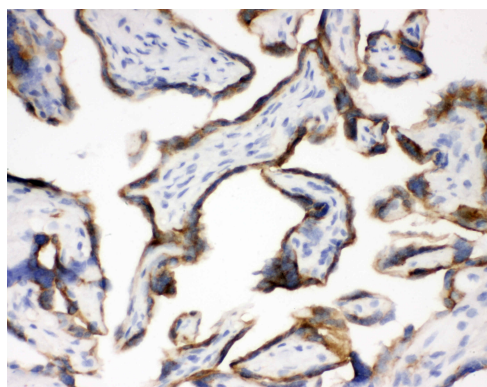


Figure 4. IHC analysis of Cytokeratin 19 using anti- Cytokeratin 19

antibody (BA4154).Cytokeratin 19 was detected in frozen section of

human placenta tissues. The tissue section was blocked with 10%

goat serum. The tissue section was then incubated with 1μg/ml

rabbit anti- Cytokeratin 19 Antibody (BA4154) overnight at 4°C.

Biotinylated goat anti-rabbit IgG was used as secondary antibody

and incubated for 30 minutes at 37°C. The tissue section was

developed using Streptavidin-Biotin-Complex (SABC)(Catalog #

SA1022) with DAB as the chromogen.