

# Product Datasheet

## Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free NBP2-33134

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-33134**

Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	A53-B/A2.26
Preservative	No Preservative
Isotype	IgG2a Lambda
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	40 kDa

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-15186).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	3880
Gene Symbol	KRT19
Species	Human, Ferret (Negative), Rat (Negative)
Reactivity Notes	Does not react with Rat or Ferret.
Marker	Pancreatic Stem Cell Marker
Specificity/Sensitivity	This monoclonal antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa. Its epitope maps between amino acid 312-335. CK19 is expressed in sweat gland, mammary gland ductal and secretory cells, bile ducts, gastrointestinal tract, bladder urothelium, oral epithelia, esophagus, and ectocervical epithelium. Anti-CK19 reacts with a wide variety of epithelial malignancies including adenocarcinomas of the colon, stomach, pancreas, biliary tract, liver, and breast. Perhaps the most useful application is the identification of thyroid carcinoma of the papillary type, although 50%-60% of follicular carcinomas are also labeled. Anti-CK19 is a useful marker for detection of tumor cells in lymph nodes, peripheral blood, bone marrow and breast cancer.
Immunogen	Human breast cancer MCF-7 cells

Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 0.5-1ug/ml, Simple Western, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2ug/ml, Immunohistochemistry-Paraffin 0.5-1ug/ml, Immunohistochemistry-Frozen 0.5-1ug/ml, CyTOF-ready

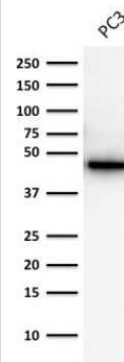


**Application Notes**

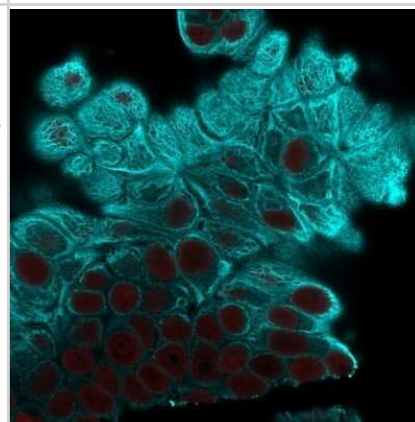
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

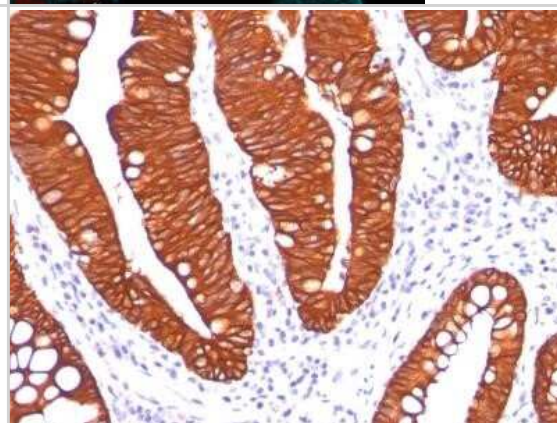
Western Blot: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] - Western Blot Analysis of human Prostate Cancer PC-3 cell lysate Cytokeratin 19 Antibody (A53-B/A2.26).



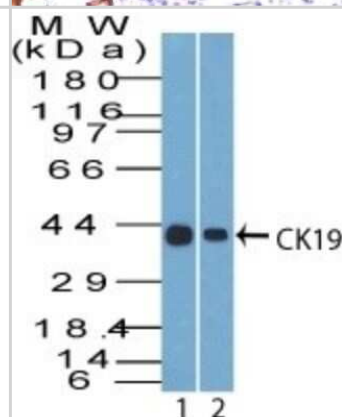
Immunocytochemistry/Immunofluorescence: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] - Immunofluorescence Analysis of MCF-7 cells labeling Cytokeratin 19 with Cytokeratin 19 Antibody (A53-B/A2.26) followed by Goat anti-Mouse IgG-CF488 (Cyan). The nuclear counterstain is Red Dot (Red)



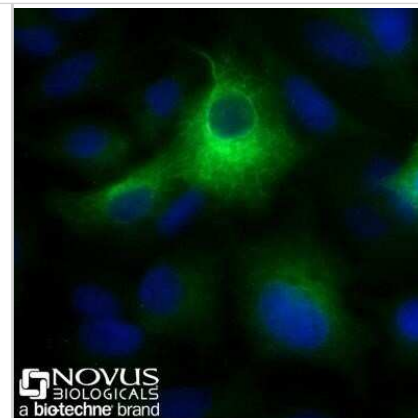
Immunohistochemistry-Paraffin: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] - Formalin-paraffin colon carcinoma stained with Cytokeratin 19 Ab (A53-B/A2.26).



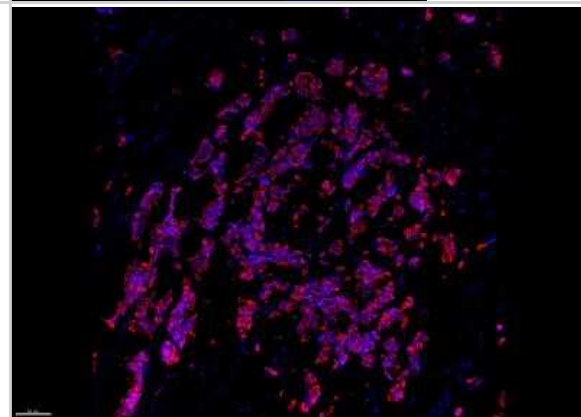
Western Blot: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] - Western blot 1) Hep-G2 and 2) MCF-7 lysate using of Cytokeratin 19 Antibody (A53-B/A2.26).



**Immunocytochemistry/Immunofluorescence: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] -** HepG2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-Cytokeratin 19 (A53-B/A2.26) conjugated to Alexa Fluor 488 [NBP2-33134AF488] at 10ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the Alexa Fluor 488 version of this antibody.



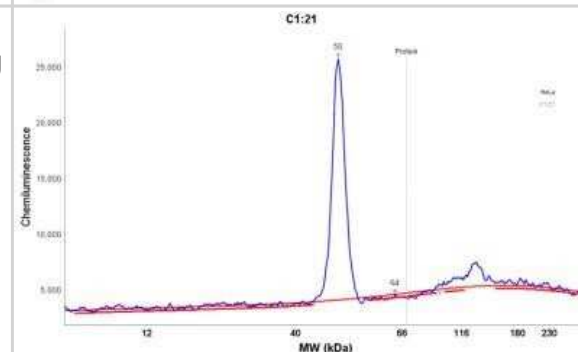
**Immunohistochemistry-Frozen: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] -** Breast cancer tissue stained for Cytokeratin 19 (red) counter stained with DAPI (blue). The Janelia-549 conjugate of this antibody was used. IHC-Fr image submitted by a verified customer review.



**Simple Western: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] -** Simple Western lane view shows a specific band for Cytokeratin 19 in 0.2 mg/ml of HeLa lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



**Simple Western: Cytokeratin 19 Antibody (A53-B/A2.26) - Azide and BSA Free [NBP2-33134] -** Electropherogram image of the corresponding Simple Western lane. Cytokeratin 19 antibody was used at 10 ug/ml dilution of HeLa lysates(s) respectively.





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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NB100-687PEP	Cytokeratin 19 Antibody Blocking Peptide
1129-ER-050	ErbB2/Her2 [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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