

# Product Datasheet

## Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free NBP2-47985-0.1mg

Unit Size: 0.1 mg

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

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**NBP2-47985-0.1mg**

Cytokeratin 18 Antibody (KRT18/834) - 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	KRT18/834
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	45 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 (NBP2-44948).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	3875
Gene Symbol	KRT18
Species	Human, Bovine (Negative), Canine (Negative), Hamster (Negative), Mouse (Negative), Porcine (Negative), Rat (Negative), Sheep (Negative)
Reactivity Notes	Does not react with Mouse, Rat, Sheep, Hamster, Bovine, Canine or Porcine.
Marker	Epithelial Marker
Specificity/Sensitivity	This monoclonal antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid. Cytokeratin 18, which belongs to the type A (acidic) subfamily of low molecular weight keratins, exists in combination with cytokeratin 8. It is reported that tissues from gastrointestinal tract are positive for both cytokeratin 8 and 18 but do not contain cytokeratin 14. Tissues from gastrointestinal tract, respiratory tract and urogenital tract, as well as endocrine and exocrine tissues and mesothelial cells are positive for cytokeratin 18.
Immunogen	Recombinant full-length human Cytokeratin 18 protein (Uniprot: P05783)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
Recommended Dilutions	Western Blot, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Immunofluorescence 1 - 2 ug/ml, CyTOF-ready

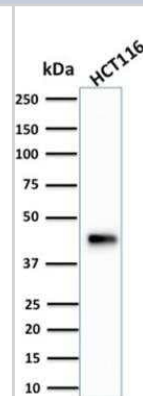


**Application Notes**

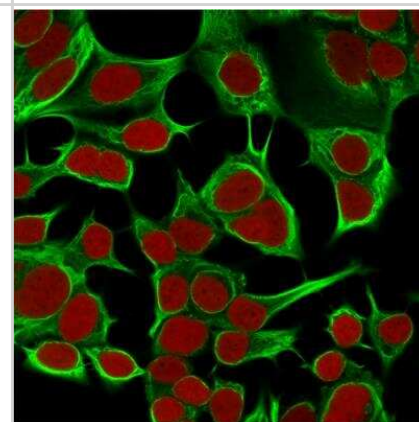
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

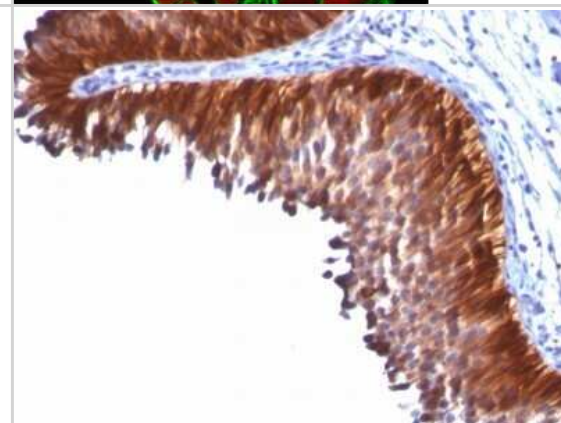
Western Blot: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Analysis of human HCT116 cell lysate using Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834).



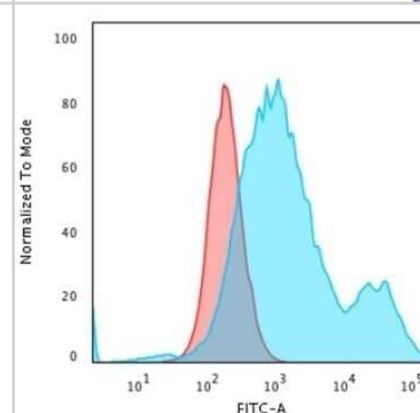
Immunocytochemistry/Immunofluorescence: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Staining of MCF cells using Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834). Green (CF488) and Reddot is used to label the nuclei Red.



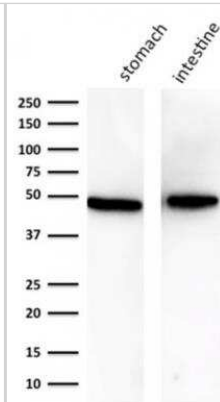
Immunohistochemistry-Paraffin: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Human Bladder Carcinoma stained with Cytokeratin 18 Monoclonal Antibody (KRT18/834).



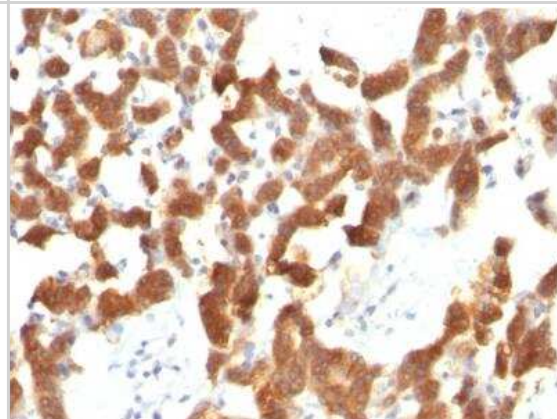
Flow Cytometry: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Flow Cytometric Analysis of paraformaldehyde-fixed HeLa cells using Cytokeratin 18 Antibody (KRT18/834) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



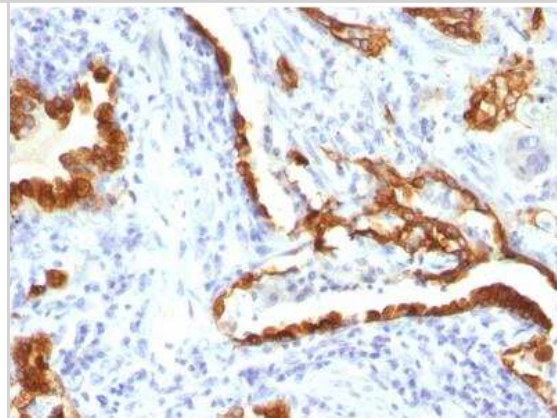
Western Blot: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Analysis of A) human stomach B) human intestine using Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834).



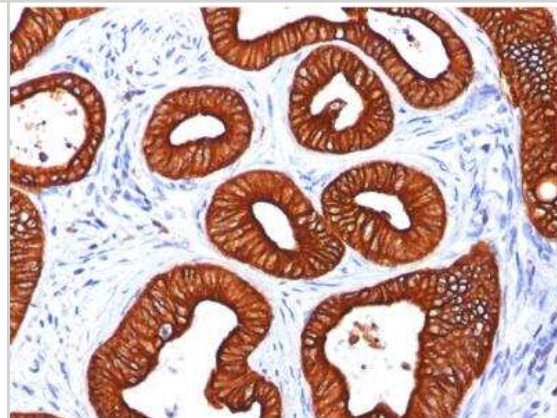
Immunohistochemistry-Paraffin: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Human Thyroid Carcinoma stained with Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834).



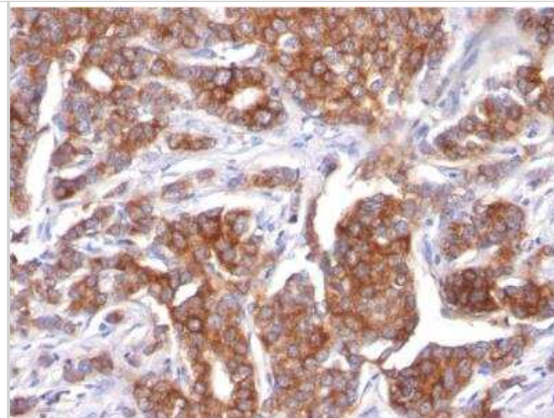
Immunohistochemistry-Paraffin: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Human Lung Carcinoma stained with Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834).



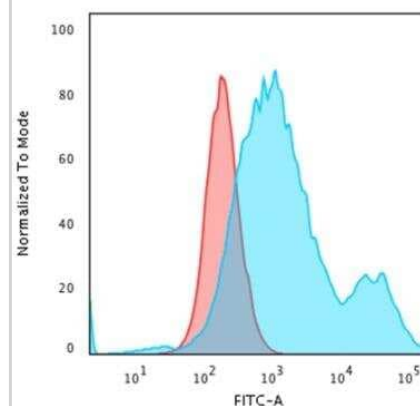
Immunohistochemistry-Paraffin: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Human Colon Carcinoma stained with Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834).



Immunohistochemistry-Paraffin: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Human Breast Carcinoma stained with Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834).



Flow Cytometry: Cytokeratin 18 Antibody (KRT18/834) - Azide and BSA Free [NBP2-47985] - Analysis of paraformaldehyde-fixed HeLa cells using Cytokeratin 18 Mouse Monoclonal Antibody (KRT18/834) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).





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**Products Related to NBP2-47985-0.1mg**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00003875-P01-10ug	Recombinant Human Cytokeratin 18 GST (N-Term) Protein

**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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