

# Product Datasheet

## Cytokeratin 18 Antibody (DE-K18)

**NBP2-44947-0.1mg**

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-44947-0.1mg****Cytokeratin 18 Antibody (DE-K18)**

| <b>Product Information</b>     |                          |
|--------------------------------|--------------------------|
| <b>Unit Size</b>               | 0.1 mg                   |
| <b>Concentration</b>           | 0.2 mg/ml                |
| <b>Storage</b>                 | Store at 4C.             |
| <b>Clonality</b>               | Monoclonal               |
| <b>Clone</b>                   | DE-K18                   |
| <b>Preservative</b>            | 0.05% Sodium Azide       |
| <b>Isotype</b>                 | IgG1 Kappa               |
| <b>Purity</b>                  | Protein A or G purified  |
| <b>Buffer</b>                  | 10 mM PBS with 0.05% BSA |
| <b>Target Molecular Weight</b> | 45 kDa                   |

| <b>Product Description</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>             | 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP3-11516)<br><br>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Host</b>                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene ID</b>                 | 3875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Symbol</b>             | KRT18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>                 | Human, Canine, Feline, Rat (Negative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reactivity Notes</b>        | Does not react with Rat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Marker</b>                  | Epithelial Marker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Specificity/Sensitivity</b> | 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 was 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. |
| <b>Immunogen</b>               | Cytoskeletal preparation extracted from the human vulvar squamous carcinoma cell line A431                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| <b>Product Application Details</b> |                                                                                                                                                                                                        |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>                | Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin                                                             |
| <b>Recommended Dilutions</b>       | Western Blot 1-2 ug/ml, Simple Western 10 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 2-4 ug/ml |

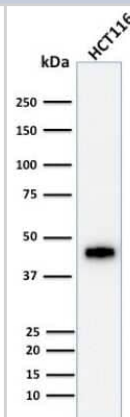


**Application Notes**

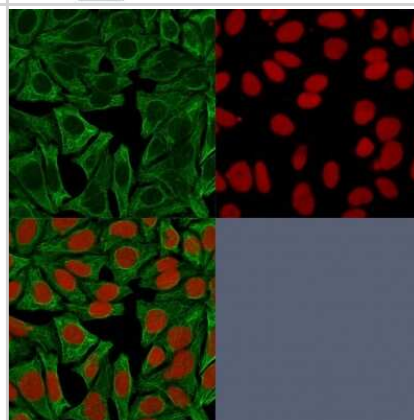
Immunohistochemistry (Formalin-fixed): 2-4ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See [Simple Western Antibody Database](#) for Simple Western validation: Tested in HeLa lysate, separated by Size, antibody dilution of 10 ug/mL, apparent MW was 56 kDa.

**Images**

Western Blot: Cytokeratin 18 Antibody (DE-K18) [NBP2-44947] - Western Blot Analysis of human HCT116 cell lysate using Cytokeratin 18 Antibody (DE-K18).



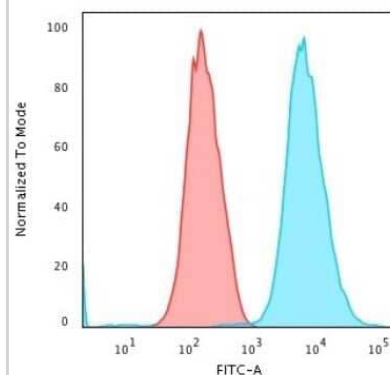
Immunocytochemistry/Immunofluorescence: Cytokeratin 18 Antibody (DE-K18) [NBP2-44947] - Confocal Immunofluorescence image of HeLa cells using Cytokeratin 18 Antibody (DE-K18) Green (CF488) and Red Dot is used to label the nuclei.



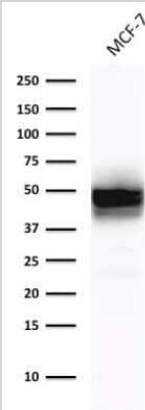
Immunohistochemistry-Paraffin: Cytokeratin 18 Antibody (DE-K18) [NBP2-44947] - Human Colon Carcinoma stained with Cytokeratin 18 Monoclonal Antibody (DE-K18).



Flow Cytometry: Cytokeratin 18 Antibody (DE-K18) [NBP2-44947] - Flow Cytometric Analysis of trypsinised MeOH-fixed HeLa cells using Cytokeratin 18 Antibody (DE-K18) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



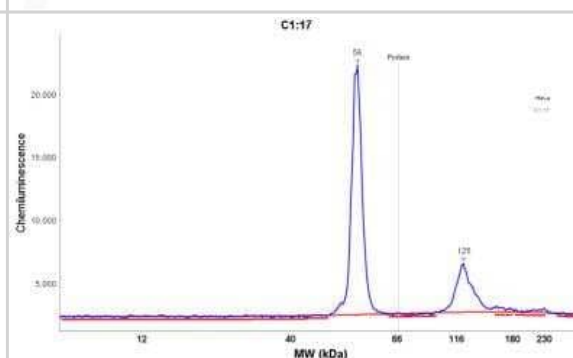
Western Blot: Cytokeratin 18 Antibody (DE-K18) [NBP2-44947] - Western Blot Analysis of MCF-7 cell lysate using Cytokeratin 18 Antibody (DE-K18).



Simple Western: Cytokeratin 18 Antibody (DE-K18) [NBP2-44947] - Simple Western lane view shows a specific band for Cytokeratin 18 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 18 Antibody (DE-K18) [NBP2-44947] - Electropherogram image of the corresponding Simple Western lane. Cytokeratin 18 antibody was used at 10 ug/ml dilution of HeLa lysates(s) respectively.





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### **Products Related to NBP2-44947-0.1mg**

|                    |                                                         |
|--------------------|---------------------------------------------------------|
| 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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