

Product Datasheet

Cytokeratin 18 Antibody (DC10)

NBP2-29461

Unit Size: 0.1 mg

Store at 4C.

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NBP2-29461**Cytokeratin 18 Antibody (DC10)**

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	DC10
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	45 kDa

Product Description	
Description	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. (NBP2-33082) 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, Ferret (Negative), Bovine (Negative), Canine (Negative), Hamster (Negative), Mouse (Negative), Porcine (Negative), Rat (Negative), Sheep (Negative)
Reactivity Notes	Does not react with Mouse, Rat, Ferret, Hamster, Sheep, 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	PMC-42 human breast carcinoma cells

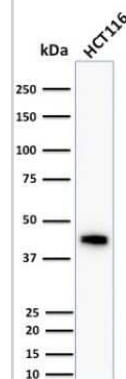
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Simple Western 10 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry 0.5-1ug/ml, Immunocytochemistry/Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml

Application Notes

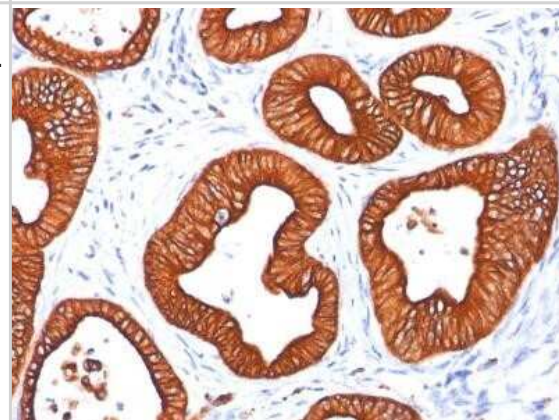
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple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

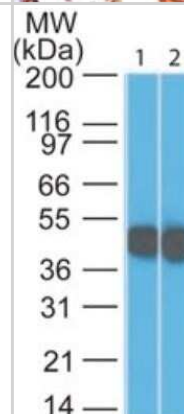
Western Blot: Cytokeratin 18 Antibody (DC10) [NBP2-29461] - Western Blot Analysis of human HCT116 cell lysate using Cytokeratin 18 Antibody (DC10).



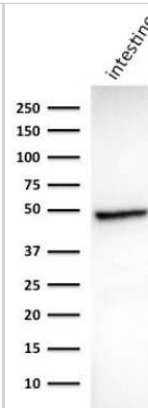
Immunohistochemistry-Paraffin: Cytokeratin 18 Antibody (DC10) [NBP2-29461] - Analysis using the Azide and BSA Free version of NBP2-29461. Staining of human skin sweat gland. Note cytoplasmic staining of tumor cells.



Western Blot: Cytokeratin 18 Antibody (DC10) [NBP2-29461] - Analysis using the Azide and BSA Free version of NBP2-29461. Detection of Keratin 18 in 1) HeLa and 2) A431 lysate using Keratin 18 antibody at 1 ug/ml. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



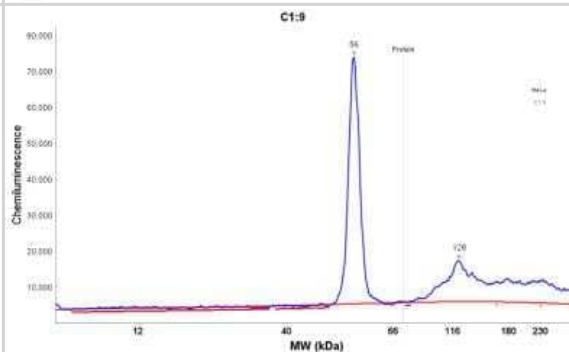
Western Blot: Cytokeratin 18 Antibody (DC10) [NBP2-29461] - Western Blot Analysis of human Intestine tissue lysate using Cytokeratin 18 Antibody (DC10).



Simple Western: Cytokeratin 18 Antibody (DC10) [NBP2-29461] - 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 (DC10) [NBP2-29461] - Electropherogram image of the corresponding Simple Western lane. Cytokeratin 18 antibody was used at 10 ug/ml dilution of HeLa lysates(s) respectively.



Publications

Soeta K, Iuchi K, Hisatomi H, Yokoyama C Generation of Rat Monoclonal Antibody for Cytokeratin 18 by Immunization of Three-Dimensional-Cultured Cancer Cells Monoclon Antib Immunodiagn Immunother 2020-10-16 [PMID: 33064594]

Yoon HJ, Jo BC, Shin WJ et al. Comparative immunohistochemical study of ameloblastoma and ameloblastic carcinoma. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011-12-01 [PMID: 22014999]

Terada T. Angiosarcoma of the oral cavity. Head Neck Pathol. 2011-03-01 [PMID: 20924728]



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Products Related to NBP2-29461

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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