

# Product Datasheet

## Cytokeratin 17 Antibody (E3 (same as Ks17.E3)) NBP2-29421

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-29421**

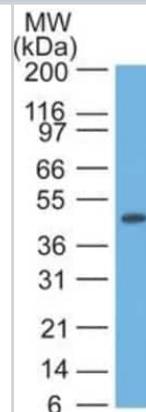
Cytokeratin 17 Antibody (E3 (same as Ks17.E3))

<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>	E3 (same as Ks17.E3)
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2b Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Target Molecular Weight</b>	46 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. (NBP2-33188)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	3872
<b>Gene Symbol</b>	KRT17
<b>Species</b>	Human, Rat, Porcine, Bovine, Goat
<b>Marker</b>	Basal Epithelial Marker
<b>Specificity/Sensitivity</b>	Cytokeratin 17 (CK17) is normally expressed in the basal cells of complex epithelia but not in stratified or simple epithelia. Antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as 'epithelial stem cell' marker because CK17 Ab marks basal cell differentiation. CK17 is expressed in SCLC much higher than in LADC. Eighty-five percent of the triple negative breast carcinomas immunoreact with basal cytokeratins including anti-CK17. Also important is that cases of triple negative breast carcinoma with expression of CK17 show an aggressive clinical course. The histologic differentiation of ampullary cancer, intestinal vs. pancreatobiliary, is very important for treatment. Usually anti-CK17 and anti-MUC1 immunoreactivity represents pancreatobiliary subtype whereas anti-MUC2 and anti-CDX-2 positivity defines intestinal subtype.
<b>Immunogen</b>	Cytoskeletal fraction of rat colon epithelium (Uniprot: Q04695)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin

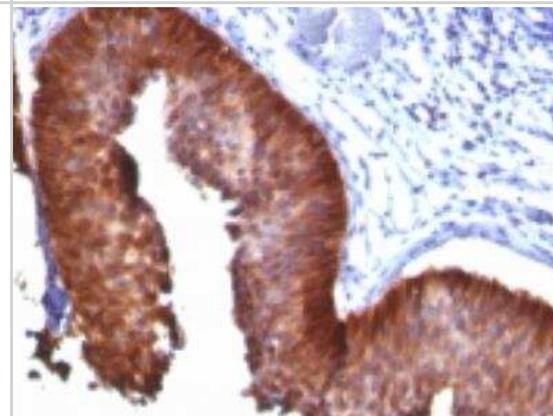
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Immunohistochemistry-Frozen 1-2 ug/ml
<b>Application Notes</b>	Immunohistochemistry (Frozen & 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

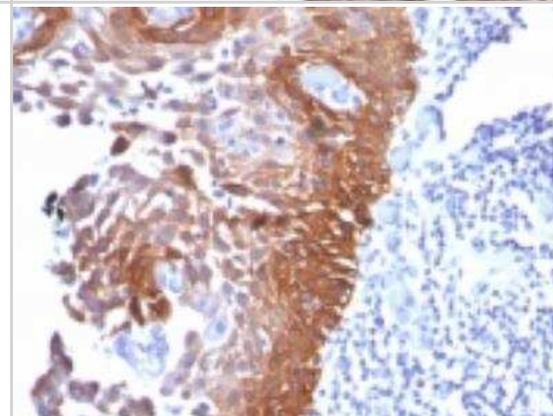
Western Blot: Cytokeratin 17 Antibody (E3 (same as Ks17.E3)) [NBP2-29421] - Analysis of Cytokeratin 17 in human HeLa lysate using Cytokeratin 17 E3 antibody at 3 ug/ml. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



Immunohistochemistry-Paraffin: Cytokeratin 17 Antibody (E3 (same as Ks17.E3)) [NBP2-29421] - Formalin-fixed paraffin-embedded human Bladder Carcinoma stained with CK17 Monoclonal Antibody (E3)



Immunohistochemistry-Paraffin: Cytokeratin 17 Antibody (E3 (same as Ks17.E3)) [NBP2-29421] - Formalin-fixed, paraffin-embedded human cervical carcinoma stained with CK17 Monoclonal Antibody (E3).



## Publications

McGinn O, Riley D, Finlay-Schultz J et al. Cytokeratins 5 and 17 Maintain an Aggressive Epithelial State in Basal-Like Breast Cancer *Molecular Cancer Research* 2022-09-02 [PMID: 35639459] (Western Blot)

Tedjawirja VN, Hooijer GKJ, Savci-Heijink CD et al. Inadequate detection of the FSHR complicates future research on extragonadal FSHR localization *Front Endocrinol (Lausanne)* 2023-02-16 [PMID: 36875462] (Immunohistochemistry)

McGinn O, Ward AV, Fettig LM et al. Cytokeratin 5 alters beta-catenin dynamics in breast cancer cells *Oncogene* 2020-01-27 [PMID: 31988452] (WB, Human)

Haisma EM, Rietveld MH, de Breij A et al. Inflammatory and Antimicrobial Responses to Methicillin-Resistant *Staphylococcus aureus* in an In Vitro Wound Infection Model. *PLoS One* 2013-12-10 [PMID: 24340061] (IHC-P, Human)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-29421**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NBP2-51594-0.1mg	Recombinant Human Cytokeratin 17 His Protein

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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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