

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))

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C.
Clonality	Monoclonal
Clone	E3 (same as Ks17.E3)
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein G purified
Buffer	PBS with 0.05% BSA.
Target Molecular Weight	46 kDa

Product Description	
Host	Mouse
Gene ID	3872
Gene Symbol	KRT17
Species	Human, Rat, Porcine, Bovine, Goat
Marker	Basal Epithelial Marker
Specificity/Sensitivity	Cytokeratin 17 (CK17) is a member of the Cytokeratin subfamily of intermediate filament proteins (IFP's). It is unique in that it is normally expressed in the basal cells of complex epithelia but not in stratified or simple epithelia. CK17 is expressed in the nail bed, hair follicle, sebaceous glands and other epidermal appendages. 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 can be useful when included in a panel of antibodies against TTF-1, napsin A, CK5&6, p63, and SOX-2 for diagnostic differentiation between lung adenocarcinoma (LADC) and lung squamous cell carcinoma (SCLC), especially for poorly-differentiated lung carcinoma. CK17 is expressed in SCLC much higher than in LADC. In breast carcinomas, approximately 20% of patients show no expression of ER, PR and Her2, which are defined as triple negative tumor. 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.
Immunogen	The cytoskeletal fraction of rat colon epithelium was used as immunogen for the Cytokeratin 17 E3 antibody.

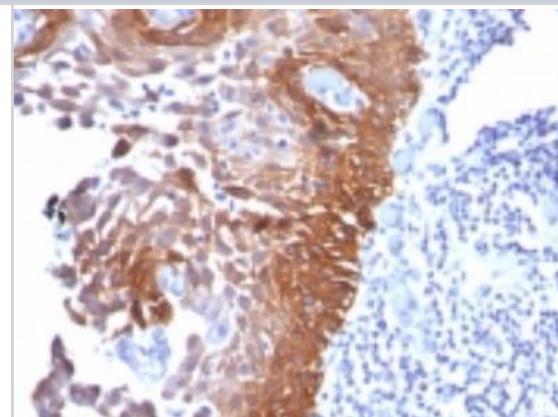
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation



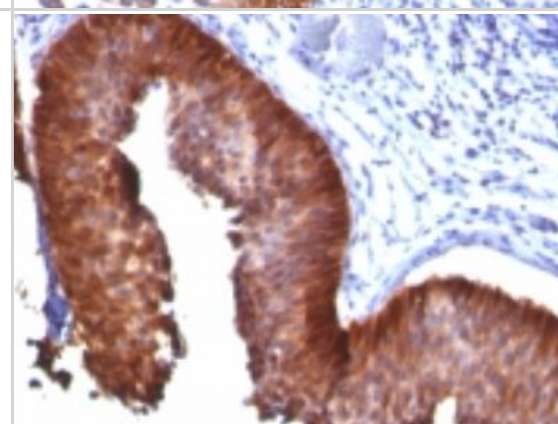
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 0.5-1ug/million cells, ELISA 1-5ug/ml for coating, Immunocytochemistry/Immunofluorescence 1-2ug/ml, Immunoprecipitation 1-2ug/500ug protein lysate, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml
Application Notes	Human Chromosome Location: 17q21.2 Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. Flow Cytometry, Immunocytochemistry/Immunofluorescence and Immunohistochemistry-Frozen have been reported to work in literature.

Images

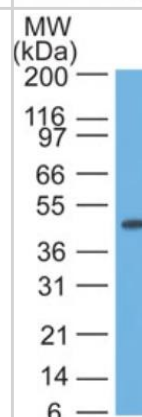
Immunohistochemistry-Paraffin: Cytokeratin 17 Antibody (E3 (same as Ks17.E3)) [NBP2-29421] - Formalin-fixed, paraffin-embedded human cervical carcinoma stained with CK17 Monoclonal Antibody (E3).



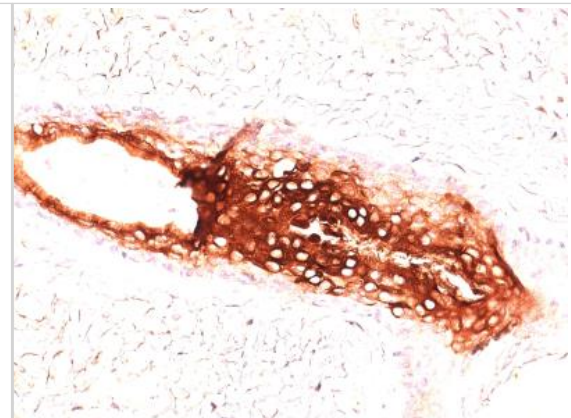
Immunohistochemistry-Paraffin: Cytokeratin 17 Antibody (E3 (same as Ks17.E3)) [NBP2-29421] - Formalin-fixed paraffin-embedded human Bladder Carcinoma stained with CK17 Monoclonal Antibody (E3)



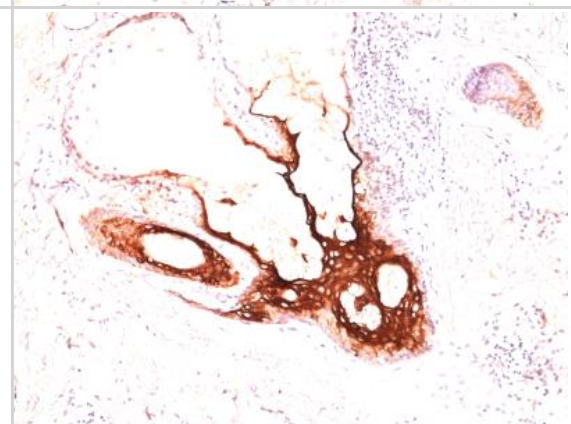
Western Blot: Cytokeratin 17 Antibody (E3) [NBP2-29421] - Analysis of Cytokeratin 17 in human HeLa lysate using Cytokeratin 17 E3 antibody at 3 ug/ml. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



Immunocytochemistry/Immunofluorescence: Cytokeratin 17 Antibody (E3) [NBP2-29421] - Formalin-paraffin skin stained with CK17 Ab (E3).



Immunohistochemistry-Paraffin: Cytokeratin 17 Antibody (E3) [NBP2-29421] - Formalin-paraffin skin stained with CK17 Ab (E3).



Publications

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 Dec 10 [PMID: 24340061] (IHC-P, Human)



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Products Related to NBP2-29421

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NB120-18421	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b-57)
NBP1-87319PEP	Cytokeratin 17 Recombinant Protein Antigen

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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