

Product Datasheet

Cytokeratin 7 Antibody (R17-S)

NBP1-30152-0.1ml

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NBP1-30152-0.1ml**Cytokeratin 7 Antibody (R17-S)****Product Information**

Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	R17-S
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	20mM Tris-HCl (pH 8.0) and 20mg/ml BSA

Product Description

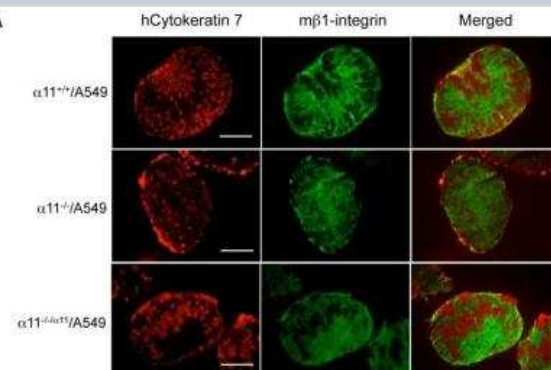
Description	This antibody is immunoaffinity purified with immunogenic peptide as a ligand.
Host	Rabbit
Gene ID	3855
Gene Symbol	KRT7
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28832662).
Specificity/Sensitivity	This antibody is specific for the N terminus o Cytokeratin 7
Immunogen	Peptide derived from N-terminal sequence of human cytokeratin 7. Antibody recognizes the epitope between Ala22 - Ser38.
Notes	This antibody is immunoaffinity purified with immunogenic peptide as a ligand.

Product Application Details

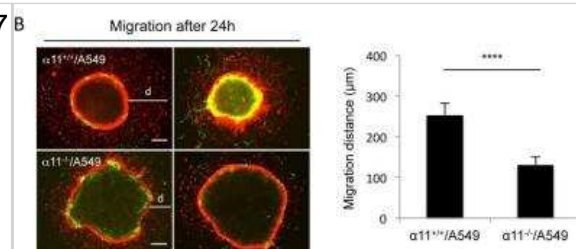
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:100-200
Application Notes	Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 25076207).

Images

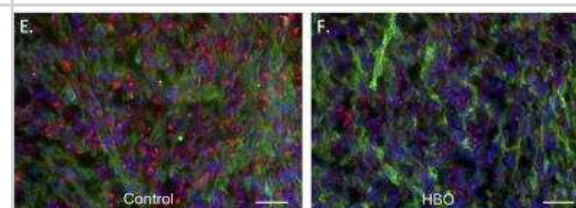
Immunocytochemistry/Immunofluorescence: Cytokeratin 7 Antibody (R17-S) [NBP1-30152] - A549 cell segregation and proliferation inside the spheroids. Four- day-old heterospheroids (as indicated) were double-stained with anti-human cytokeratin 7 (stained A549 cells, red) and anti-mouse beta1 integrin (stained MEFs, green) antibodies. Size bars = 100 um. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0103173>) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: Cytokeratin 7 Antibody (R17-S) [NBP1-30152] - Spheroid migration on collagen I monolayers and invasion in 3D collagen gels. Fluorescence immunostaining of the spheroids on coverslips after 24 h and migration distance of A549 from the heterospheroids. Spheroids were double stained with antibodies towards human Cytokeratin 7 (stained A549 cells, red) and mouse beta1 integrin (stained MEFs, green). Six of each type of spheroids were stained. The maximum migration distance (d) of A549 cells were measured on the photographs as indicated in the figure and calculated according to size bar. Size bars = 100 μ m. **** $p < 0.0001$. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0103173>) licensed under a CC-BY license.



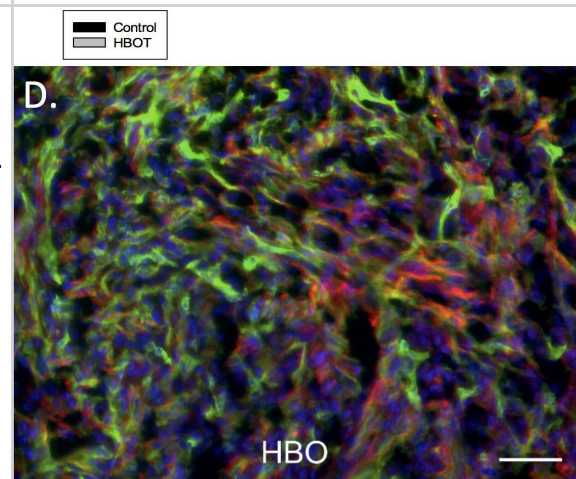
Immunohistochemistry: Cytokeratin 7 Antibody (R17-S) [NBP1-30152] - Analysis of immunofluorescence stained collagen type I fibrils in primary tumors. The amount of stroma versus tumor cells demonstrates significantly less cancer cells in the HBOT group compared to control. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0183254>), licensed under a CC-BY license.



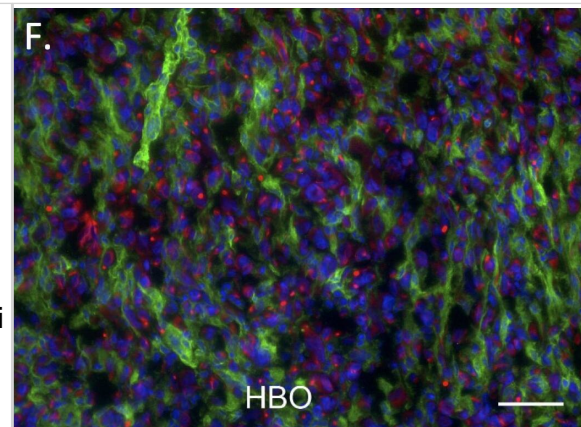
Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (R17-S) [NBP1-30152] - Pulmonary adenocarcinoma (A), ductal pancreatic adenocarcinoma (B) and ductal carcinoma of the breast (C) showing diffuse CK7 positivity. Formalin fixed, paraffin embedded human tissues (4 μ m sections) stained with anti - Cytokeratin 7 monospecific clonal antibody.



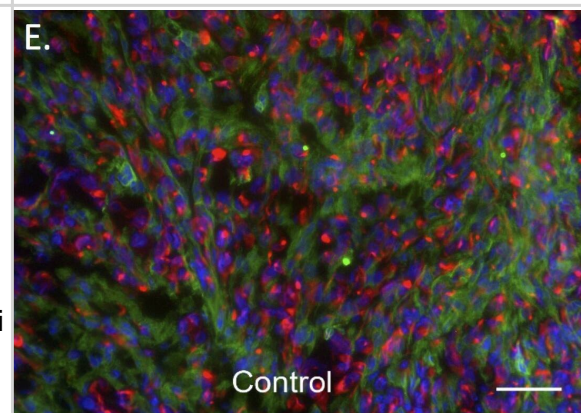
Western Blot: Cytokeratin 7 Antibody (R17-S) [NBP1-30152] - Collagen type I. The total amount of collagen type I quantified as percent of total area in both control (n = 5 tumors) & HBOT (n = 5 tumors) primary tumors (A) is shown. The total amount of ITGB1 as percent of total area in both control (n = 5 tumors) & HBOT (n = 5 tumors) primary tumors (B). A representative immunofluorescence (IF) staining picture from a control (C) & HBOT (D) tumor is shown. Green represents stroma cells (stained with antibody to mouse integrin- β 1) red represents collagen type I secreted by the stromal cells (stained with antibody to mouse collagen type I), & blue shows the nuclei stained with DAPI. Scale bar represents 100 μ m. Representative IF pictures are also shown to illustrate the composition/proportion of the tumor cells (red, stained with cytokeratin 7 antibody) & the stromal cells (green, stained with integrin β 1 antibody) from the control (E) & and HBOT (F) tumors, respectively. Scale bar represents 100 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28832662>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: Cytokeratin 7 Antibody (R17-S) [NBP1-30152] - Collagen type I. The total amount of collagen type I quantified as percent of total area in both control (n = 5 tumors) & HBOT (n = 5 tumors) primary tumors (A) is shown. The total amount of ITGB1 as percent of total area in both control (n = 5 tumors) & HBOT (n = 5 tumors) primary tumors (B). A representative immunofluorescence (IF) staining picture from a control (C) & HBOT (D) tumor is shown. Green represents stroma cells (stained with antibody to mouse integrin- β 1) red represents collagen type I secreted by the stromal cells (stained with antibody to mouse collagen type I), & blue shows the nuclei stained with DAPI. Scale bar represents 100 μ m. Representative IF pictures are also shown to illustrate the composition/proportion of the tumor cells (red, stained with cytokeratin 7 antibody) & the stromal cells (green, stained with integrin β 1 antibody) from the control (E) & and HBOT (F) tumors, respectively. Scale bar represents 100 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28832662>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: Cytokeratin 7 Antibody (R17-S) [NBP1-30152] - Collagen type I. The total amount of collagen type I quantified as percent of total area in both control (n = 5 tumors) & HBOT (n = 5 tumors) primary tumors (A) is shown. The total amount of ITGB1 as percent of total area in both control (n = 5 tumors) & HBOT (n = 5 tumors) primary tumors (B). A representative immunofluorescence (IF) staining picture from a control (C) & HBOT (D) tumor is shown. Green represents stroma cells (stained with antibody to mouse integrin- β 1) red represents collagen type I secreted by the stromal cells (stained with antibody to mouse collagen type I), & blue shows the nuclei stained with DAPI. Scale bar represents 100 μ m. Representative IF pictures are also shown to illustrate the composition/proportion of the tumor cells (red, stained with cytokeratin 7 antibody) & the stromal cells (green, stained with integrin β 1 antibody) from the control (E) & and HBOT (F) tumors, respectively. Scale bar represents 100 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28832662>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Yttersian Sletta K, Tveitaras MK, Lu N et al. Oxygen-dependent regulation of tumor growth and metastasis in human breast cancer xenografts PLoS ONE 2017-08-23 [PMID: 28832662] (IF/IHC, Mouse)

Lu N, Karlsen TV, Reed RK et al. Fibroblast α 11b1 Integrin Regulates Tensional Homeostasis in Fibroblast/A549 Carcinoma Heterospheroids. PLoS ONE 2014-07-31 [PMID: 25076207] (ICC/IF, Human)

Details:

Cytokeratin 7 antibody used for ICC-IF staining on cryosections of heterospheroids (composite spheroids containing a mixture of MEFs and A549 cells created using method described by Kelm et al. Biotechnol Bioeng. 2003 83:173-80). Figure 3 - Immunostaining of cytokeratin 7 in α 11+/+/A549 and α 11-/-/A549 spheroids (Figure 3A, Figure S2).



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Products Related to NBP1-30152-0.1ml

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00003855-P01-10ug	Recombinant Human Cytokeratin 7 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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