

Product Datasheet

Cytokeratin 7 Antibody (OV-TL12/30)

NBP2-44814-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-44814-0.1mg

Cytokeratin 7 Antibody (OV-TL12/30)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	OV-TL12/30
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	55 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. (NBP2-47940) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	3855
Gene Symbol	KRT7
Species	Human
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30522949).
Marker	Glandular and Transitional Epithelial Marker
Specificity/Sensitivity	It recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This monoclonal antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs. Cytokeratin 7 is a basic cytokeratin, which is found in most glandular and transitional epithelia but not in the stratified squamous epithelia. Keratin 7 is expressed in the epithelial cells of ovary, lung, and breast but not of colon, prostate, or gastrointestinal tract. This monoclonal antibody is highly useful in distinguishing ovarian carcinomas (keratin 7+) from colon carcinomas (keratin 7-).
Immunogen	OTN 11, ovarian carcinoma cell line

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

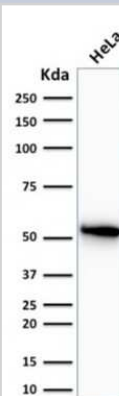


Application Notes

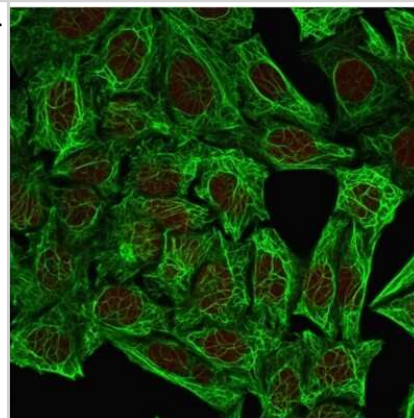
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple 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 1 ug/mL, apparent MW was 56 kDa. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 30239759). Use in Immunohistochemistry reported in scientific literature (PMID: 30522949).

Images

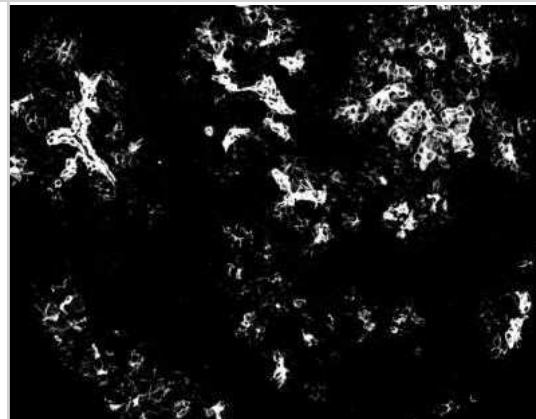
Western Blot: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Western Blot Analysis of human HeLa cell lysate using Cytokeratin 7 Antibody (OV-TL12/30).



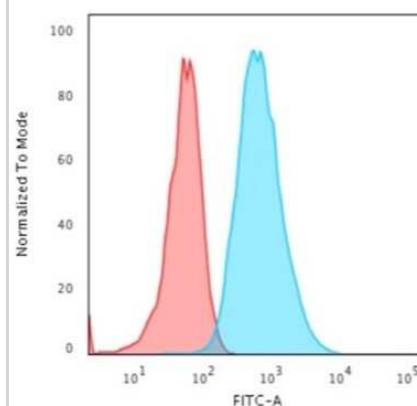
Immunocytochemistry/Immunofluorescence: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Immunofluorescent staining of methanol-fixed HeLa cells. Cytokeratin 7 Antibody (OV-TL12/30) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot.



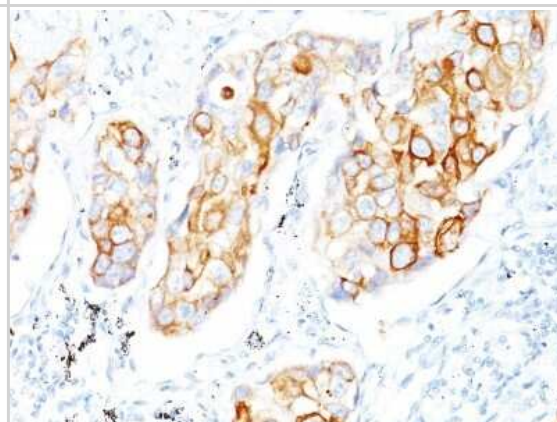
Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Paraffin-embedded human salivary gland tissue. Image from verified customer review. Image using the Azide and BSA Free format of this antibody.



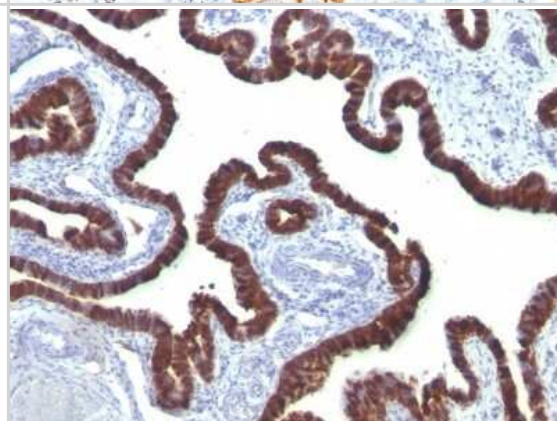
Flow Cytometry: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Flow Cytometric Analysis of HeLa cells using Cytokeratin 7 Antibody (OV-TL12/30) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Human Lung SCC stained with Cytokeratin 7 Monoclonal Antibody (OV-TL12/30)



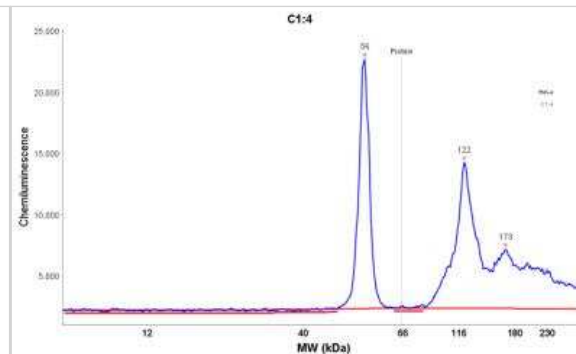
Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Human Ovarian Carcinoma stained with Cytokeratin 7 Monoclonal Antibody (OV-TL12/30)



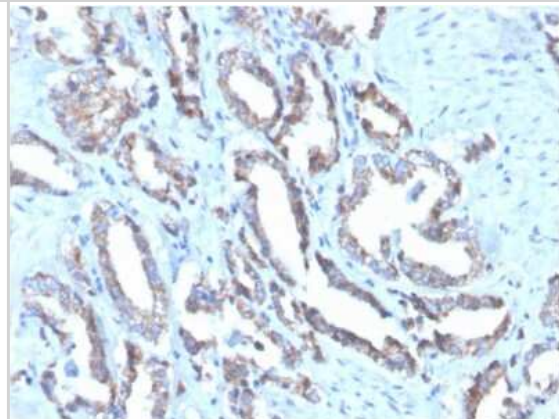
Simple Western: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Simple Western lane view shows a specific band for Cytokeratin 7 in 0.1 mg/ml of HeLa lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



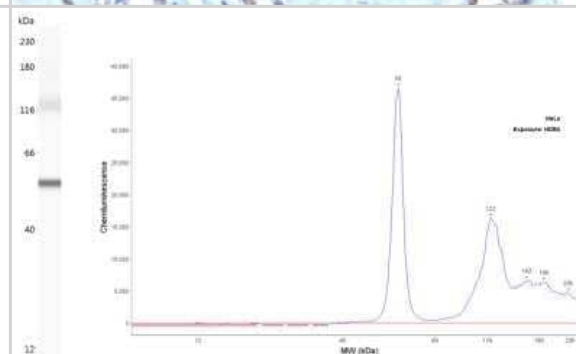
Simple Western: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Electropherogram image of the corresponding Simple Western lane. Cytokeratin 7 antibody was used at 1 ug/ml dilution of HeLa lysates(s) respectively.



Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Formalin-fixed, paraffin-embedded human prostate carcinoma stained with Biotin-conjugated Cytokeratin 7 Mouse Monoclonal Antibody (OV-TL12/30).



Simple Western: Cytokeratin 7 Antibody (OV-TL12/30) [NBP2-44814] - Lane view shows a specific band for Cytokeratin 7 at 5 ug/mL in HeLa cell lysate. Electropherogram image of corresponding Simple Western lane view at WES molecular weight of 61 kDa. Image from an internal validation.



Publications

Fatima Rizvi, Yu-Ri Lee, Ricardo Diaz-Aragon, Pushpinder S Bawa, Juhoon So, Rodrigo M Florentino, Susan Wu, Arianna Sarjoo, Emily Truong, Anna R Smith, Feiya Wang, Elissa Everton, Alina Ostrowska, Kyoungghwa Jung, Ying Tam, Hiromi Muramatsu, Norbert Pardi, Drew Weissman, Alejandro Soto-Gutierrez, Donghun Shin, Valerie Gouon-Evans VEGFA mRNA-LNP promotes biliary epithelial cell-to-hepatocyte conversion in acute and chronic liver diseases and reverses steatosis and fibrosis. *Cell stem cell* 2023-12-16 [PMID: 38029740]

Rizvi F, Lee YR, Diaz-Aragon R et al. VEGFA mRNA-LNP promotes biliary epithelial cell-to-hepatocyte conversion in acute and chronic liver diseases and reverses steatosis and fibrosis *bioRxiv* : the preprint server for biology 2023-04-18 [PMID: 37131823]

Yuan B, Zhao X, Wang X et al. Patient-derived organoids for personalized gallbladder cancer modelling and drug screening *Clinical and translational medicine* 2022-01-01 [PMID: 35075805] (IHC-P, Human)

Kallol S, Huang X, Muller S et al. Novel Insights into Concepts and Directionality of Maternal Fetal Cholesterol Transfer across the Human Placenta. *Int J Mol Sci.* 2018-08-09 [PMID: 30096856] (FLOW, Human)

Details:

Citation using the Alexa Fluor 488 form of this antibody.

Steele N, Chakrabarti J, Wang J et al. An Organoid-Based Preclinical Model of Human Gastric Cancer Cellular and Molecular Gastroenterology and Hepatology 2018-09-02 [PMID: 30522949] (IF/IHC, Mouse)

Mani S, Ghosh J, Lan Y et al. Epigenetic changes in reterm birth placenta suggest a role for ADAMTS genes in spontaneous preterm birth. *Hum. Mol. Genet.* 2018-09-18 [PMID: 30239759] (ICC/IF, Human)





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Products Related to NBP2-44814-0.1mg

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)
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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