

Product Datasheet

Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free NBP2-47940-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP2-47940-0.1mg

Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free

| Product Information | |
|-------------------------|---|
| Unit Size | 0.1 mg |
| Concentration | 1.0 mg/ml |
| Storage | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | OV-TL12/30 |
| Preservative | No Preservative |
| Isotype | IgG1 Kappa |
| Purity | Protein A or G purified |
| Buffer | 10 mM PBS |
| Target Molecular Weight | 55 kDa |

| Product Description | |
|-------------------------|---|
| Description | 1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44814). 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, Mouse |
| 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, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence |
| Recommended Dilutions | Western Blot, Simple Western 5 ug/ml, Flow Cytometry 5 - 10 ul/million cells in 0.1ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:100-1:200, Immunofluorescence 1:50 - 1:100, CyTOF-ready |

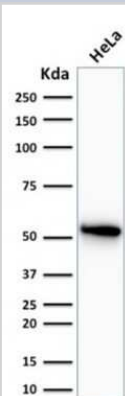


Application Notes

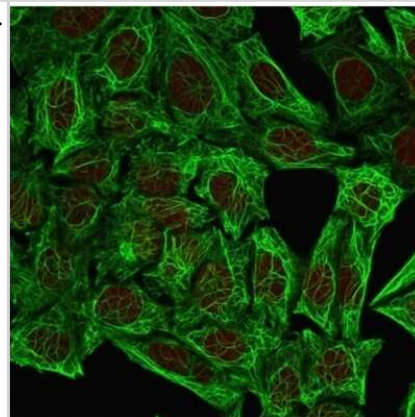
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See [Simple Western Antibody Database](#) for Simple Western validation: antibody dilution of 5 ug/mL. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 30239759). Use in Immunohistochemistry reported in scientific literature (PMID: 30522949).

Images

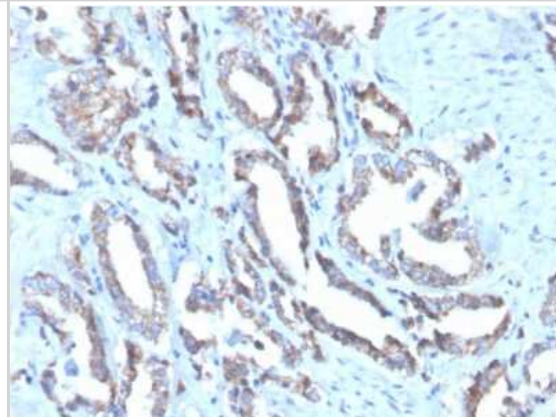
Western Blot: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Western Blot Analysis of human HeLa cell lysate using Cytokeratin 7 Antibody (OV-TL12/30).



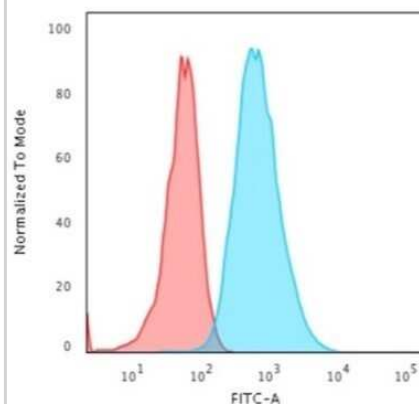
Immunocytochemistry/Immunofluorescence: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Immunofluorescent staining of methanol-fixed HeLa cells. Cytokeratin 7 Antibody (OV-TL12/30) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot.



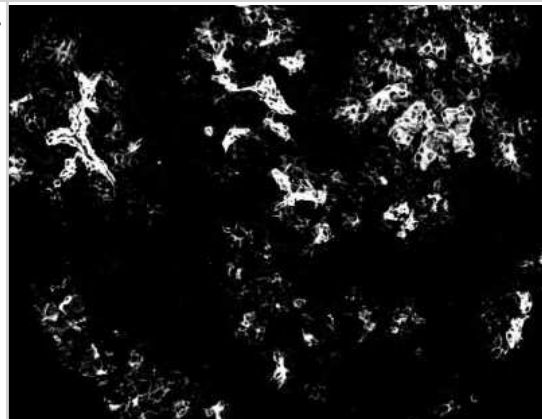
Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Formalin-fixed, paraffin-embedded human prostate carcinoma stained with Biotin-conjugated Cytokeratin 7 Mouse Monoclonal Antibody (OV-TL12/30).



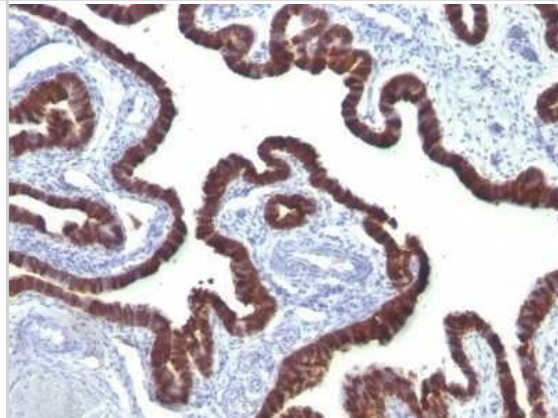
Flow Cytometry: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Flow Cytometric Analysis of HeLa cells using Cytokeratin 7 Antibody (OV-TL12/30) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



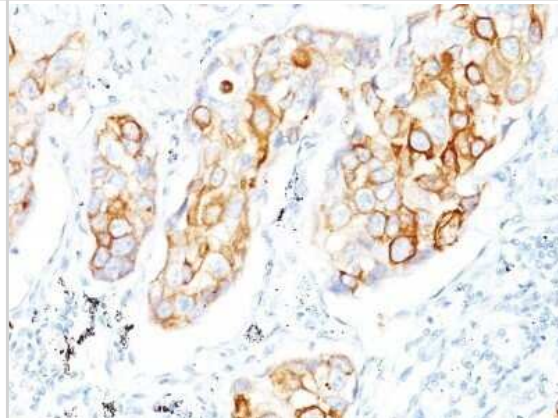
Immunocytochemistry/Immunofluorescence: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Paraffin-embedded human salivary gland tissue. ICC/IF image submitted by a verified customer review.



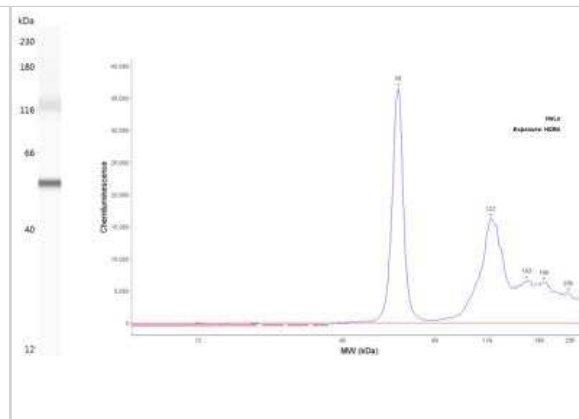
Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Human Ovarian Carcinoma stained with Cytokeratin 7 Monoclonal Antibody (OV-TL12/30)



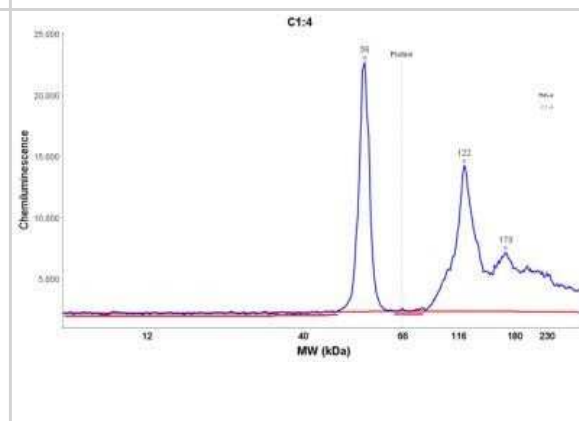
Immunohistochemistry-Paraffin: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Human Lung SCC stained with Cytokeratin 7 Monoclonal Antibody (OV-TL12/30)



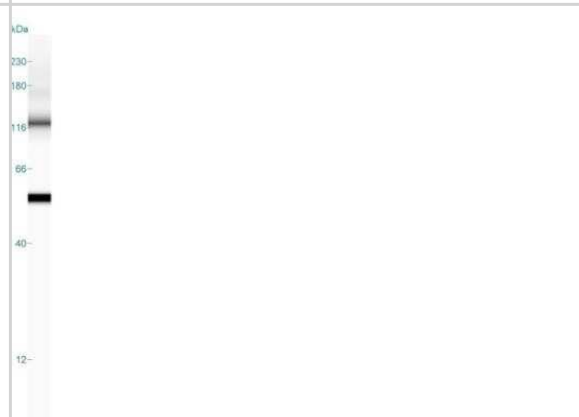
Simple Western: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Lane view shows a specific band for Cytokeratin 7 at 5 ug/mL in HeLa cell lysate. Electropherogram image of corresponding Simple Western lane view at WES molecular weight of 61 kDa. Image from an internal validation.



Simple Western: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - Electropherogram image of the corresponding Simple Western lane. Cytokeratin 7 antibody was used at 1 ug/mL dilution of HeLa lysates(s) respectively.



Simple Western: Cytokeratin 7 Antibody (OV-TL12/30) - Azide and BSA Free [NBP2-47940] - 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.



Publications

Darlane, C;Clairefond, S;Peant, B;Communal, L; High Keratin-7 Expression in Benign Peri-Tumoral Prostatic Glands Is Predictive of Bone Metastasis Onset and Prostate Cancer-Specific Mortality Cancers [PMID: 35406395]



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Products Related to NBP2-47940-0.1mg

| | |
|--------------------|---|
| 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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