Product Datasheet

Cytokeratin 19 Antibody - BSA Free
NBP1-78278

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Reviews: 2 Publications: 5

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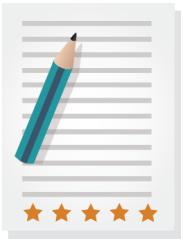
Updated 9/9/2025 v.20.1



NBP1-78278

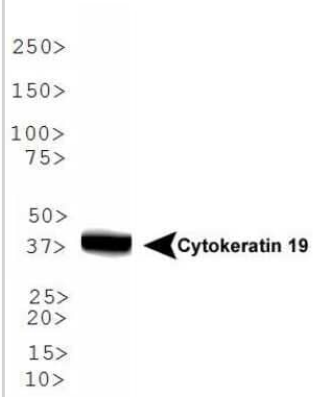
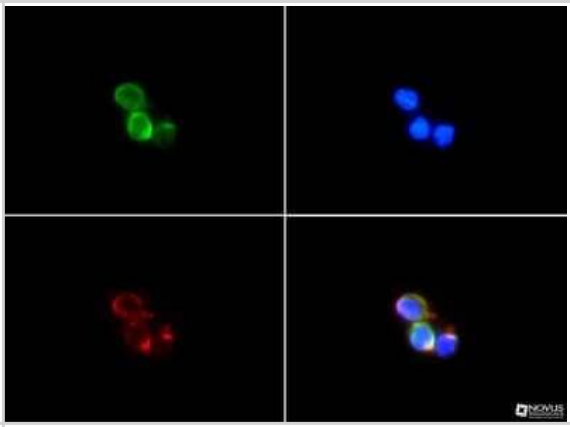
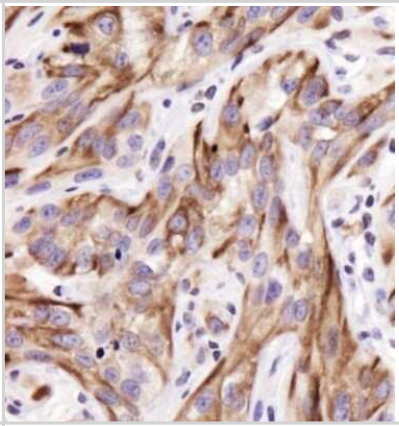
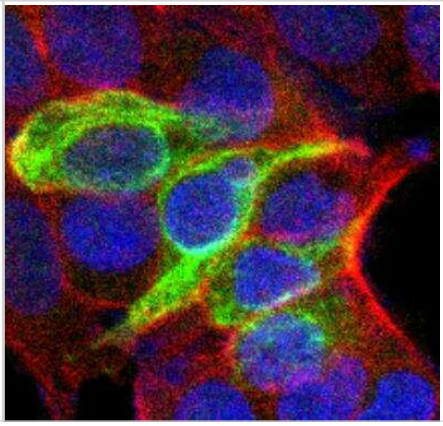
Cytokeratin 19 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.16 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 30% Glycerol

Product Description	
Description	Novus Biologicals Rabbit Cytokeratin 19 Antibody - BSA Free (NBP1-78278) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-Cytokeratin 19 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3880
Gene Symbol	KRT19
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 27070090).
Marker	Epithelial Cell Marker
Immunogen	A synthetic peptide made to an N-terminal portion of the human Cytokeratin 19 protein (between residues 1-50) [UniProt P08727]

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 2 ug/mL, Simple Western 1:3000, Immunohistochemistry 1:400, Immunocytochemistry/ Immunofluorescence 1:75, Immunohistochemistry-Paraffin 1:400
Application Notes	In Western blot a band is seen at ~44 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. 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 MCF-7 lysate 0.05 mg/mL, separated by Size, antibody dilution of 1:3000, apparent MW was 51 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

Western Blot: Cytokeratin 19 Antibody [NBP1-78278] - Analysis of Cytokeratin 19 in MCF7 lysate.	
Immunocytochemistry/Immunofluorescence: Cytokeratin 19 Antibody [NBP1-78278] - Antibody at 1:25 in MCF7 cells with FITC (green). Nuclei were counterstained with DAPI (blue).	
Immunohistochemistry: Cytokeratin 19 Antibody [NBP1-78278] - Analysis of Cytokeratin 19 in human kidney carcinoma using DAB with hematoxylin counterstain.	
Immunocytochemistry/Immunofluorescence: Cytokeratin 19 Antibody [NBP1-78278] - Confocal immunofluorescent analysis of HepG2 cells using Cytokeratin 19 antibody (NBP1-78278, 1:5). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).	

Simple Western: Cytokeratin 19 Antibody [NBP1-78278] - Image shows a specific band for Cytokeratin 19 in 0.05 mg/mL of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.

Publications

Di Chiaro P, Nacci L, Arco F, Brandini S et Al. Mapping functional to morphological variation reveals the basis of regional extracellular matrix subversion and nerve invasion in pancreatic cancer Cancer Cell 2024-03-22 [PMID: 38518775]

Schuermann M, Oppel F, Shao S et al. Chronic inflammation of middle ear cholesteatoma promotes its recurrence via a paracrine mechanism Cell Commun Signal 2021-02-25 [PMID: 33627146]

Shafaat S, Mangir N, Chapple C et al. A physiologically relevant, estradiol-17beta [E2]-responsive in vitro tissue-engineered model of the vaginal epithelium for vaginal tissue research Neurourology and urodynamics 2022-03-21 [PMID: 35312089] (IHC-P, Sheep)

Kowalik MA, Guzzo G, Morandi A et al. Metabolic reprogramming identifies the most aggressive lesions at early phases of hepatic carcinogenesis. Oncotarget. 2016-05-31 [PMID: 27070090] (Rat)

Mela M. Marcatori molecolari di cellule staminali nella cancerogenesi epatica sperimentale. Thesis. 2016-01-01 (IHC-P, WB, Rat)

Procedures

Western Blot protocol for Cytokeratin 19 Antibody (NBP1-78278)
Cytokeratin 19 Antibody:
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

Immunohistochemistry-Paraffin protocol for Cytokeratin 19 Antibody (NBP1-78278)
Cytokeratin 19 Antibody:
Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.
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Immunocytochemistry/Immunofluorescence protocol for Cytokeratin 19 Antibody (NBP1-78278)
Cytokeratin 19 Antibody:
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.
1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,0000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

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Products Related to NBP1-78278

NBP1-42569	HepG2 Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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