

Product Datasheet

Folliculin Antibody - BSA Free NBP1-44995

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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Publications: 2

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Updated 9/9/2025 v.20.1

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NBP1-44995

Folliculin Antibody - BSA Free

| Product Information | |
|----------------------|--|
| Unit Size | 0.1 ml |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.1% Sodium Azide |
| Isotype | IgG |
| Purity | Unpurified |
| Buffer | Whole antisera |

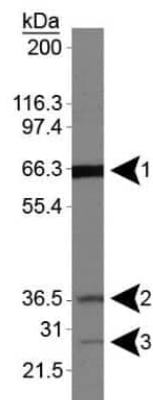
| Product Description | |
|--------------------------------|---|
| Description | Novus Biologicals Rabbit Folliculin Antibody - BSA Free (NBP1-44995) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Folliculin Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 201163 |
| Gene Symbol | FLCN |
| Species | Human, Mouse |
| Reactivity Notes | Immunogen sequence similarity to other species: Primate species (99%), Canine (95%), Rat (92%), Bovine (91%), Xenopus (87%). |
| Specificity/Sensitivity | This antibody is expected to detect all three isoforms of Folliculin protein (UniProt # Q8NFG4) |
| Immunogen | N-terminal partial recombinant human Folliculin protein [Swiss-Prot# Q8NFG4] expressed in E. coli. |

| Product Application Details | |
|------------------------------|---|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry |
| Recommended Dilutions | Western Blot 1:1000, Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:50-1:200 |
| Application Notes | This Folliculin antibody is useful for Western Blot, Immunohistochemistry-Paraffin and Immunocytochemistry/Immunofluorescence applications. In WB, bands are seen at 67 kDa, 37 kDa and 26 kDa representing isoforms 1, 2 and 3 of FLCN respectively. |

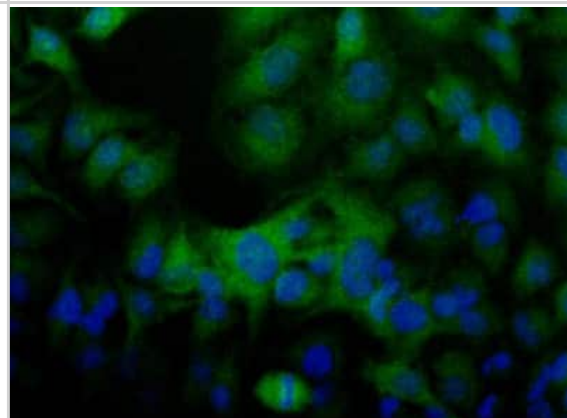


Images

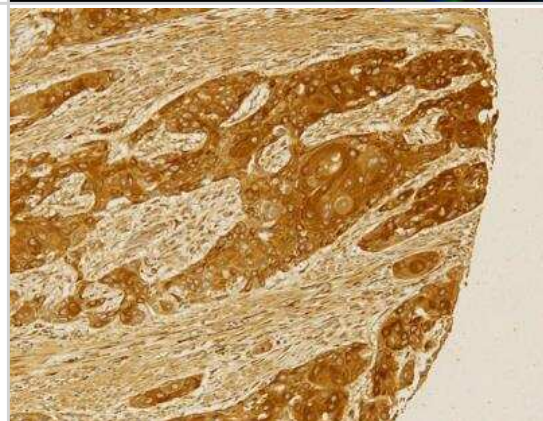
Western Blot: Folliculin Antibody [NBP1-44995] - Analysis of FLCN isoforms 1, 2 and 3 on HeLa whole cell lysate



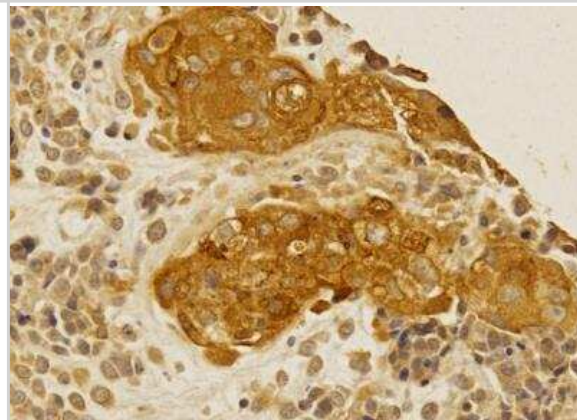
Immunocytochemistry/Immunofluorescence: Folliculin Antibody [NBP1-44995] - Detection of FLCN (Green) in Hela cells using NBP1-44995. Nuclei (Blue) are counterstained using Hoechst 33258



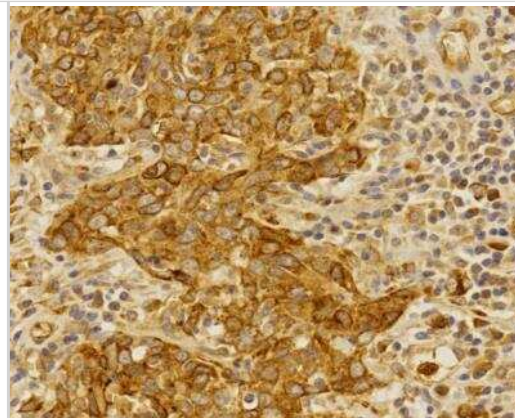
Immunohistochemistry-Paraffin: Folliculin Antibody [NBP1-44995] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human esophageal squamous cell carcinoma (SCC) using rabbit polyclonal Folliculin antibody (NBP1-44995) at 5 ug/ml concentration. The SCC cells as well as the associated stromal cells depicted strong cytoplasmic-nuclear immunostaining of Folliculin protein. The staining was more intense in the carcinoma cells compared to the tumor stroma [Magnification 10X]



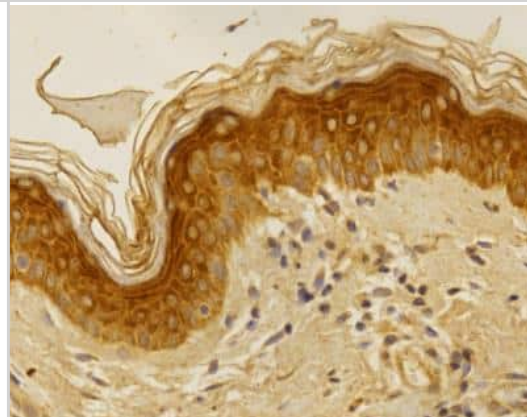
Immunohistochemistry-Paraffin: Folliculin Antibody [NBP1-44995] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human bladder cancer using rabbit polyclonal Folliculin antibody (NBP1-44995) at 5 ug/ml concentration. The carcinoma cells as well as the various stromal cells depicted cytoplasmic- nuclear immunostaining for Folliculin protein. The cytoplasmic staining was more intense in the carcinoma cells compared to tumor stroma [Magnification 40X]



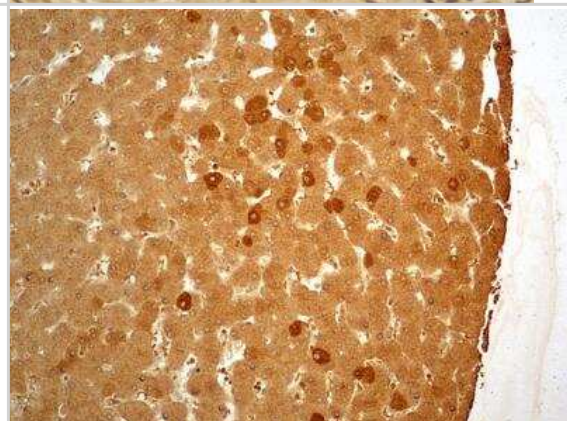
Immunohistochemistry-Paraffin: Folliculin Antibody [NBP1-44995] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human pulmonary squamous cell carcinoma using rabbit polyclonal Folliculin antibody (NBP1-44995) at 5 ug/ml concentration. Cytoplasmic-nuclear immunostaining of Folliculin protein was observed in the various cells and interestingly, the staining was intense and localized more towards the cell membranes in a bunch of cells having mesenchymal morphology. [Magnification 40X]



Immunohistochemistry-Paraffin: Folliculin Antibody [NBP1-44995] - IHC analysis of formalin-fixed paraffin-embedded tissue section of normal skin from human using rabbit polyclonal Folliculin antibody (NBP1-44995) at 5 ug/ml concentration. Intense cytoplasmic with moderate nuclear immunostaining of Folliculin protein was observed in the various cells of the epidermal layer [Magnification 40X].



Immunohistochemistry-Paraffin: Folliculin Antibody [NBP1-44995] - IHC analysis of formalin-fixed paraffin-embedded tissue section of normal liver of human using rabbit polyclonal Folliculin antibody (NBP1-44995) at 5 ug/ml concentration. Strong cytoplasmic-nuclear immunopositivity of Folliculin protein was observed in hepatocytes [Magnification 10X].



Publications

Ruiz-Velasco A, Raja R, Chen X et al. Restored autophagy is protective against PAK3-induced cardiac dysfunction iScience 2023-05-01 [PMID: 37324527] (WB)

Details:
Dilution: 1:1000

Woodford MR, Baker-Williams AJ, Sager RA Et al. The tumor suppressor folliculin inhibits lactate dehydrogenase A and regulates the Warburg effect Nature structural & molecular biology 2021-08-01 [PMID: 34381247] (ICC/IF, Human)

Procedures

Protocol specific for FLCN Antibody (NBP1-44995)

Folliculin Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFD_M + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-FLCN primary antibody (NBP1-44995) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG 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 [TBS + 0.1% Tween] 3 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 (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NBP1-44995

| | |
|-------------|---|
| NB800-PC1 | HeLa 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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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