# Product Datasheet

## CAMP/LL37/FALL39/Cathelicidin Antibody - BSA Free
## NBP1-76864

Unit Size: 0.1 mg

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

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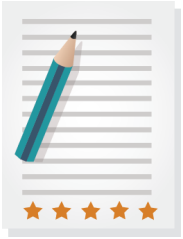
**Publications: 4**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-76864

Updated 9/9/2025 v.20.1





# NBP1-76864

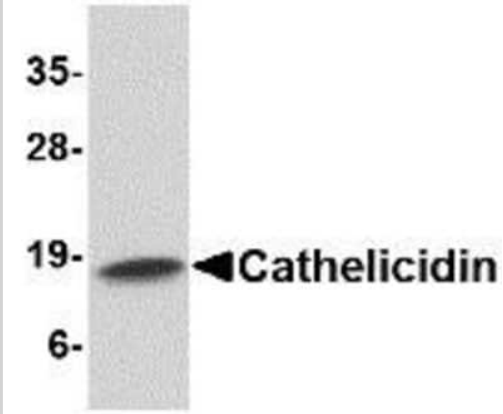
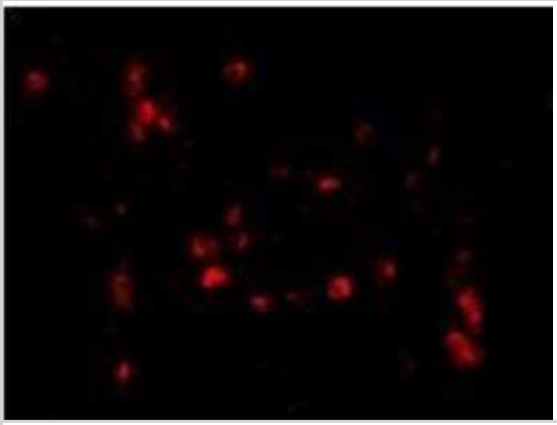
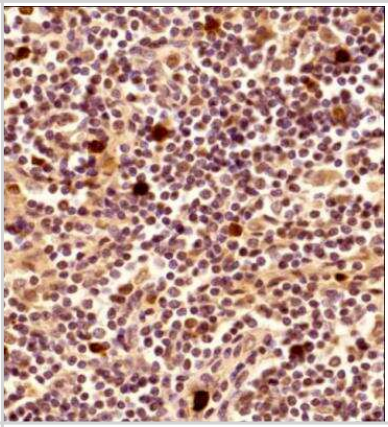
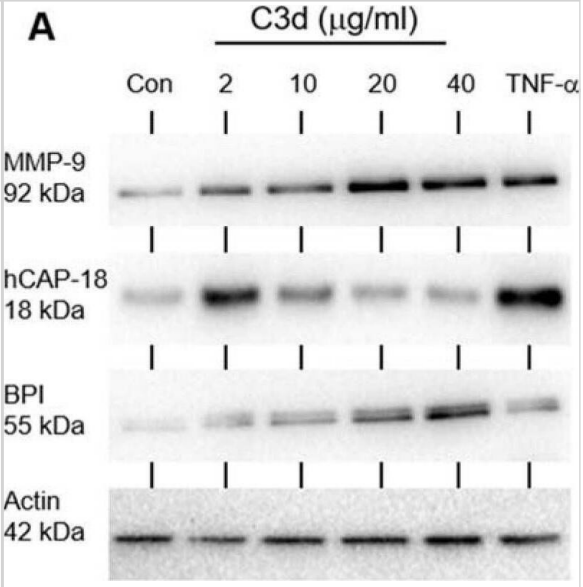
CAMP/LL37/FALL39/Cathelicidin Antibody - BSA Free

| Product Information | |
|---|---|
| **Unit Size** | 0.1 mg |
| **Concentration** | 1 mg/ml |
| **Storage** | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.02% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Immunogen affinity purified |
| **Buffer** | PBS |

| Product Description | |
|---|---|
| **Description** | Novus Biologicals Rabbit CAMP/LL37/FALL39/Cathelicidin Antibody - BSA Free (NBP1-76864) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-CAMP/LL37/FALL39/Cathelicidin Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| **Host** | Rabbit |
| **Gene ID** | 820 |
| **Gene Symbol** | CAMP |
| **Species** | Human |
| **Immunogen** | Antibody was raised against a 17 amino acid synthetic peptide from an internal portion of the human Cathelicidin protein. The immunogen is located within amino acids 50 - 100 of Cathelicidin. |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry |
| **Recommended Dilutions** | Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 5 ug/ml |

## Images

| | |
|---|---|
| Western Blot: CAMP/LL37/FALL39/Cathelicidin Antibody [NBP1-76864] - Human spleen tissue lysate with Cathelicidin antibody at 1 ug/ml. |   |
| Immunocytochemistry/Immunofluorescence: CAMP/LL37/FALL39/Cathelicidin Antibody [NBP1-76864] - in Human Spleen cells. |  |
| Immunohistochemistry-Paraffin: CAMP/LL37/FALL39/Cathelicidin Antibody [NBP1-76864] - IHC analysis of a formalin fixed paraffin embedded tissue section of human lymph node using 5 ug/ml dilution of CAMP antibody (NBP1-76864). The signal was developed using HRP-DAB method which followed counterstaining of the cells with hematoxylin. |  |
| Neutrophil degranulation is increased in response to C3d treatment. Neutrophils isolated from HC individuals were incubated at 37 C and remained unstimulated (Con) or were stimulated with C3d (2–40 ug/mL) or TNF-α (10 ng / 2 × 107 cells) (A–C). (A) Cell-free supernatants were collected at 10 min and immunoblotted for markers of tertiary granule (MMP-9), secondary granule (hCAP-18), or primary granule (BPI) release. Densitometry of MMP-9 (B), hCAP-18 (C), and BLPI (D) immunobands was performed. Western blot analyses of whole cell lysates demonstrated equal expression levels of β-actin, confirming the use of equal cell numbers per reaction. C3d-challenged neutrophils released significantly greater levels of all three granule types when compared to untreated controls (Con) (n = 5 biological repeats, ANOVA followed by Bonferroni post-hoc test for selected groups). All results are expressed as relative densitometry units (DU), with representative Western blots presented. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/34944741), licensed under a CC-BY license. Not internally tested by Novus Biologicals. |   |

## Publications

LT Fee, D Gogoi, ME O'Brien, E McHugh, M Casey, C Gough, M Murphy, AM Hopkins, TP Carroll, NG McElvaney, EP Reeves C3d Elicits Neutrophil Degranulation and Decreases Endothelial Cell Migration, with Implications for Patients with Alpha-1 Antitrypsin Deficiency Biomedicines, 2021-12-16;9(12):. 2021-12-16 [PMID: 34944741]

Murphy MP, Hunt D, Herron M et Al. Neutrophil-Derived Peptidyl Arginine Deiminase Activity Contributes to Pulmonary Emphysema by Enhancing Elastin Degradation J Immunol 2024-07-01 [PMID: 38758115]

Tantengco OAG, Kechichian T, Vincent KL Et al. Inflammatory Response Elicited by Ureaplasma parvum colonization in human cervical epithelial, stromal, and immune cells Reproduction (Cambridge, England) 2021-11-01 [PMID: 34780348] (ICC/IF, WB, Human)

Fan D, Coughlin LA, Neubauer MM et al. Activation of HIF-1alpha and LL-37 by commensal bacteria inhibits Candida albicans colonization. Nat Med 2015-07-01 [PMID: 26053625]

## Procedures

**Western Blot protocol for CAMP/LL37/FALL39/Cathelicidin Antibody (NBP1-76864)**
CAMP/LL37/FALL39/Cathelicidin Antibody:
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute anti-CAMP primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST 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.

**Immunohistochemistry-Paraffin protocol for CAMP/LL37/FALL39/Cathelicidin Antibody (NBP1-76864)**
CAMP/LL37/FALL39/Cathelicidin 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 4 C.
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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## Products Related to NBP1-76864

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|---|---|
| NBP1-76864PEP | CAMP/LL37/FALL39/Cathelicidin Antibody Blocking Peptide |
| 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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