

Product Datasheet

Antennapedia Control Peptide NBP2-29334-5mg

Unit Size: 5 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP2-29334-5mg

Antennapedia Control Peptide

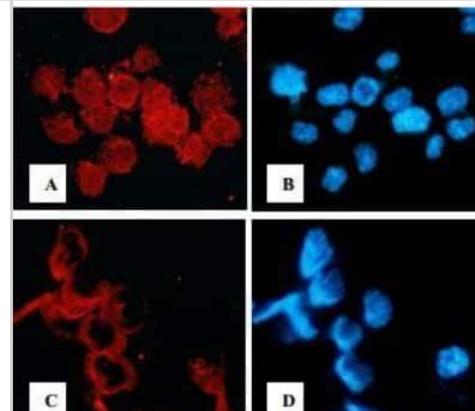
Product Information	
Unit Size	5 mg
Concentration	Lyoph
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Reconstitution Instructions	Researchers should determine the appropriate stock and working solutions for their model system (example for 5 mM stock solution): Add 84.8 ul of deionized water, cell culture media or DMSO to peptide. Carefully pipet to ensure peptide dissolution.

Product Description	
Description	<p>The Antennapedia Control Peptide is composed of the protein transduction (PTD) sequence derived from antennapedia which renders the peptide cell permeable. It can be used as a control for peptides that contain the antennapedia PTD sequence.</p> <p>Source: <i>Synthetic</i></p> <p>Amino Acid Sequence: DRQIKIWFQNRRMKWKK</p> <p>Inhibitor Content: Control peptide: 5 x 1 mg (lyophilized) DRQIKIWFQNRRMKWKK. Molecular weight: 2361</p> <p>Inhibitor Type: Inhibitor Peptide</p>
Preparation Method	Solubilize the peptide just prior to use.
Notes	The MyD88 Homodimerization inhibitory peptide contains a protein transduction (PTD) sequence (DRQIKIWFQNRRMKWKK) derived from antennapedia which renders the peptide cell permeable (Derossi et al, The third helix of the antennapedia homeodomain translocates through biological membranes. J Biol Chem. 269:10444-10450 (1994)]. The control peptide consists of only the PTD sequence.
Inhibitor Content	Control peptide: 5 x 1 mg (lyophilized) DRQIKIWFQNRRMKWKK. Molecular weight: 2361

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence

Images

Immunocytochemistry/Immunofluorescence: Antennapedia Control Peptide [NBP2-29334] - NBD inhibitory peptide but not Control peptide blocks constitutive NF- κ B activation in human multiple myeloma cells. U266 cells were treated with 100 μ M of Control (A & B) or NBD peptide (C & D) for 12 hr, cytospun, plated on glass slides, air dried for 1 hr at room temperature and fixed with cold acetone. Slides were blocked with 5% normal goat serum for 1 hr and then incubated with rabbit polyclonal anti-human p65 antibody (A & C) followed by Ig-Alexa 594 second step. In control peptide treated cells, p65 translocates to nucleus (A), whereas NBD peptide prevents translocation of p65 into the nucleus (C). B & D: Nuclear staining with DNA binding dye. (Courtesy of Dr. B.B. Aggarwal, MD Anderson Cancer Center, Houston, TX)



Publications

Kieser QJ, Granoski MJ, McClelland RD et al. Actin cytoskeleton remodeling disrupts physical barriers to infection and presents entry receptors to respiratory syncytial virus *The Journal of general virology* 2023-11-01 [PMID: 38015055]

Díaz-Dinamarca DA, Salazar ML, Escobar DF et al. Surface immunogenic protein from *Streptococcus agalactiae* and *Fissurella latimarginata* hemocyanin are TLR4 ligands and activate MyD88- and TRIF dependent signaling pathways *Frontiers in immunology* 2023-09-18 [PMID: 37790926]

Details:
75 μ M

B John, C Naczki, C Patel, A Ghoneum, S Qasem, Z Salih, N Said Regulation of the bi-directional cross-talk between ovarian cancer cells and adipocytes by SPARC *Oncogene*, 2019-02-14;0(0):. 2019-02-14 [PMID: 30765860] (B/N)

You R, Kwon OY, Woo HJ, Lee SH. Hovenia Monofloral Honey can Attenuate *Enterococcus faecalis* Mediated Biofilm Formation and Inflammation *Food Science of Animal Resources* 2022-01-01 [PMID: 35028576] (Block/Neutralize)

Almarghlani A, Settem RP, Croft AJ et al. Interleukin-34 permits *Porphyromonas gingivalis* survival and NF- κ B p65 inhibition in macrophages *Molecular Oral Microbiology* 2022-06-01 [PMID: 35576119] (ELISA, Block/Neutralize)

Griffiths CD, Bilawchuk LM, McDonough JE et al. IGF1R is an entry receptor for respiratory syncytial virus *Nature* 2020-06-03 [PMID: 32494007] (B/N)

Wu X, Xue R, Peng H et al. Traf6 inhibitor boosts antitumor immunity by impeding regulatory T cell migration in Hepa1-6 tumor model *Int. Immunopharmacol.* 2019-10-26 [PMID: 31670092] (Mouse)

Aggarwal S, Takada Y, Mhashilkar AM et al. Melanoma differentiation-associated gene-7/IL-24 gene enhances NF- κ B activation and suppresses apoptosis induced by TNF. *J Immunol.* 2004-10-01 [PMID: 15383566]

Aggarwal S, Takada Y, Singh S et al. Inhibition of growth and survival of human head and neck squamous cell carcinoma cells by curcumin via modulation of nuclear factor- κ B signaling. *Int J Cancer.* 2004-09-20 [PMID: 15252836]

Bharti AC, Takada Y, Shishodia S, Aggarwal BB. Evidence that receptor activator of nuclear factor (NF)- κ B ligand can suppress cell proliferation and induce apoptosis through activation of a NF- κ B-independent and TRAF6-dependent mechanism. *J Biol Chem.* 2004-02-13 [PMID: 14645259]

Ashikawa K, Shishodia S, Fokt I et al. Evidence that activation of nuclear factor- κ B is essential for the cytotoxic effects of doxorubicin and its analogues. *Biochem Pharmacol.* 2004-01-15 [PMID: 14698047]

Sadaka C, Marloie-Provost MA, Soumelis V, Benaroch P. Developmental regulation of MHC II expression and transport in human plasmacytoid-derived dendritic cells. *Blood.* 2009-03-05 [PMID: 19015396] (Human)

Details:
Human pDC cells were pre-incubated with IMG-2000, Fig. 7.

More publications at <http://www.novusbio.com/NBP2-29334>





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NBP2-23629	Antennapedia Control Antibody - BSA Free
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Limitations

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