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## [Role of PI3K/Akt signaling pathway in the innate immune ...

<https://pubmed.ncbi.nlm.nih.gov/30541652>

Phosphatidylinositol 3 kinase/serine/threonine kinase B (**PI3K/Akt**) signaling **pathway** plays a key role in regulating immune response and inflammatory factor release in vitro and in vivo by regulating the activation of downstream signaling molecules, and is closely related to the occurrence and development of sepsis.

## The PI3K/Akt/mTOR pathway in innate immune cells: emerging ...

[https://ard.bmj.com/content/67/Suppl\\_3/iii70](https://ard.bmj.com/content/67/Suppl_3/iii70) ▾

Dec 01, 2008 · Abstract. The **phosphatidylinositol-3 kinases (PI3Ks)** and the **mammalian target of rapamycin (mTOR) pathway** have long been recognised as critically regulating metabolism, growth or survival. Recent data indicate that these molecules are also integral players in coordinating defence mechanisms in the **innate immune system**.

**Cited by:** 239

**Author:** T Weichhart, M D Säemann

**Publish Year:** 2008

## Targeting cell signaling in allergic asthma

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6799822>

Oct 18, 2019 · The **activation of the PI3K/Akt pathway** upon Tim-3 recruitment suppresses NF-κB and MAPK signaling cascades in Th1 cells and macrophages, leading to a reduction in TNF-α expression. 219,220 The activation of the Tim-3/Gal-9 **signaling pathway** on M1 macrophages leads to the production of proinflammatory cytokines, while in M2 macrophages, the recruitment of this **pathway** ...

**Cited by:** 6

**Author:** Seyyed Shamsadin Athari

**Publish Year:** 2019

## Targeting PI3-kinase (PI3K), AKT and mTOR axis in lymphoma ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/bjh.13065>

**PI3K/AKT** activity plays a pivotal role in normal and malignant B lymphocyte biology with regard to

**Name of Journal:** *World Journal of Biological Chemistry*

**Manuscript NO:** 57637

**Manuscript Type:** REVIEW

**Targeting the phosphoinositide-3-kinase/protein kinase B pathway in airway innate immunity**

Gopallawa I *et al.* The role of Akt in airway defense

Indiwari Gopallawa, Robert J Lee

### **Abstract**

The airway innate immune system maintains the first line of defense against respiratory infections. The airway epithelium and associated immune cells protect the respiratory system from inhaled foreign organisms. These cells sense pathogens *via* activation of

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1 **Crossref** 135 words  
"Encyclopedia of Signaling Molecules", Springer Nature, 2018

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6821469>

**Targeting** inducible epigenetic reprogramming **pathway** shows promise for therapeutics in reversing **airway** remodeling in a variety of chronic **airway** diseases. Keywords: 8-oxoguanine DNA glycosylase (OGG1), **airway** remodeling, bromodomain-containing protein 4 (BRD4), epigenetics, mesenchymal transition, myofibroblast

**Cited by:** 1 **Author:** Allan R Brasier, Istvan Boldogh  
**Publish Year:** 2019

### [PDF] The Phosphoinositide 3-Kinase Pathway

[science.sciencemag.org/content/sci/296/5573/1655.full.pdf](https://science.sciencemag.org/content/sci/296/5573/1655.full.pdf)

genes required for **innate** antiviral **immunity** in higher organisms. The importance of STAT1 and STAT2 in establishing an initial line of defense is underscored by the finding that these proteins are targeted by virus im-mune evasion strategies (29, 30). The type II IFN (IFNg) **pathway** is a ...

### Targeting innate immunity protein kinase signalling in ...

<https://www.nature.com/articles/nrd2829>

Jun 01, 2009 · Inoue, T. et al. Mitogen-activated protein **kinase kinase 3** is a pivotal **pathway** regulating p38 activation in inflammatory arthritis. Proc. Natl Acad. Sci. USA 103 , 5484–5489 (2006).

**Cited by:** 366 **Author:** Matthias Gaestel, Alexey Kotlyarov, Michae...  
**Publish Year:** 2009

### Modulation of Airway Epithelial Antiviral Immunity by ...

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**Targeting** inducible epigenetic reprogramming **pathway** shows promise for therapeutics in reversing **airway** remodeling in a variety of chronic **airway** diseases. Keywords: 8-oxoguanine DNA glycosylase (OGG1), **airway** remodeling, bromodomain-containing protein 4 (BRD4), epigenetics, mesenchymal transition, myofibroblast

**Cited by:** 2      **Author:** Allan R Brasier, Istvan Boldogh  
**Publish Year:** 2019

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<https://www.nature.com/articles/nrd2829>

Jun 01, 2009 · Inoue, T. et al. Mitogen-activated protein **kinase kinase** 3 is a pivotal **pathway** regulating p38 activation in inflammatory arthritis. Proc. Natl Acad. Sci. USA 103 , 5484–5489 (2006).

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**Publish Year:** 2009

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