



Role of the LTB4/BLT1 Pathway in Allergen-induced Airway Hyperresponsiveness and Inflammation

<http://www.firstlight.cn> 2006-06-13

LTB₄, a proinflammatory lipid mediator generated from arachidonic acid through the action of 5-lipoxygenase, has been known for over two decades and is implicated in a wide variety of inflammatory disorders. BLT₁, a G-protein-coupled receptor, has recently been identified as a high affinity receptor specific for LTB₄. Recent studies in allergen-induced airway hyperresponsiveness and inflammation using mice lacking BLT₁ have shown crucial new roles for leukotriene B₄ and BLT₁ in Th₂ cytokine IL-13 production from lung T cells and recruitment of antigen-specific effector CD8⁺ T cells, suggesting novel mechanisms for their actions. The leukotriene B₄-BLT₁ pathway is an important target for the treatment of bronchial asthma.

[存档文本](#)