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Pathway analysis of global gene expression change in dendritic cells induced by the polysaccharide from the roots of *Actinidia eriantha*

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Abstract

Ethnopharmacological relevance

The roots of *Actinidia eriantha* Benth have been used clinically to treat a variety of cancer in traditional Chinese medicine. The polysaccharide from this drug (AEPS) was previously reported to be a potential antitumor agent with immunomodulatory activity. However, the mechanisms of its antitumor action in immunomodulation have not yet been well-defined.

Aim of the study

To investigate the effects of AEPS on the phenotypic and functional maturation of dendritic cells and to explore the intracellular signaling mechanisms of its antitumor action in the immunomodulation.

Materials and methods

The effects of AEPS on the phagocytic activity, expression of surface molecules, mRNA and protein expression levels of cytokines and chemokines in mouse bone-marrow derived dendritic

¹ Jing Du and Xiangfeng Chen contributed equally to the work.

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