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Young-Hoon Kim, Jae-Rin Lee, Myong-Joon Hahn



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Regulation of inflammatory gene expression in macrophages by epithelial-stromal interaction**1 (Epsti1)**

Young-Hoon Kim, Jae-Rin Lee, Myong-Joon Hahn

Department of Molecular Cell Biology, Center for Molecular Medicine, Samsung Biomedical Research Institute, Sungkyunkwan University School of Medicine, Suwon 440-746, Republic of Korea

To whom correspondence should be addressed (email: hahnmj@skku.edu)

Abstract

Epithelial-stromal interaction 1 (*EPSTI1*) was first discovered as a gene induced in breast cancer epithelial cells by co-cultured stromal fibroblasts. There are many reports on the role of Epsti1 in cancer malignancy. Epsti1 is now well known in regulating cancer. Recently, the role of Epsti1 in the immune response has been reported; these reports suggest the role of Epsti1 in immune function, immune privilege, and autoimmune diseases. Furthermore, they show that Epsti1 is expressed in various types of immune cells. In this study, we observed that Epsti1 is highly expressed in macrophages exposed to IFN γ and lipopolysaccharide (LPS), which classically activates macrophages. Polarization of macrophage to classically activated (M1) or alternatively activated (M2) is important for mounting responses against various infections. The M1 and M2 types of macrophage have a distinct role in the immune system. However, the molecular

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