

عنوان مقاله:

ERK δ Mediated Signalling in Diabetic Retinopathy

محل انتشار:

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خلاصه مقاله:

Abstract Diabetic retinopathy is the lead among causes of blindness in North America. Glucose-induced endothelial injury is the most important cause of diabetic retinopathy and other vascular complications. Extracellular signal-regulated kinase δ (ERK δ), also known as big mitogen-activated protein kinase γ (BMK γ), is a member of mitogen-activated protein kinases (MAPK) family. Physiologically, it is critical for cardiovascular development and maintenance of the endothelial cell integrity. Extracellular signal-regulated kinase δ is protective for endothelial cells under stimulation and stress. Decreased activation of ERK δ results in increased endothelial cell death. Extracellular signal-regulated kinase δ signaling may be subject to alteration by hyperglycemia, while signaling pathway including ERK δ may be subject to alteration during pathogenesis of diabetic complications. In this review, the role of ERK δ in diabetic macro- and microvascular complications with a focus on diabetic retinopathy are summarized and discussed.

کلمات کلیدی:

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