

Metabolic and immunological roles of major kinase pathways

PKC

Metabolism	Immunology
Insulin action ¹⁻⁶	T cell activation ⁷⁻¹²
Cholesterol accumulation ¹³	B cell signaling and survival ¹⁴⁻¹⁶
Hepatosteatosis ¹⁷	Macrophage activation ^{18,19}

JNK

Metabolism	Immunology
Insulin action ²⁰⁻²⁵	T Cell ²⁶⁻²⁸
Hypothalamic/pituitary signaling ²⁹⁻³¹	B cell ³²
FGF21 signaling ³³	Macrophage ^{34,35}

IKK

Metabolism	Immunology
Insulin action/mitochondrial pathways ^{36,37}	Cytokine production ^{38,39}
Islet function ⁴⁰	TLR signaling ^{41,42}
Feeding behavior ^{43,44}	Inflammation resolution ⁴²

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