

Anti-RBP4 Antibody-FITC (2R164)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	FITC
Clone:	2R164
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of Mouse RBP4 expression in spleen lymphocytes. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), and then stained with FITC Rabbit anti-Mouse RBP4. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	10 µl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Mouse RBP4 protein (TMPY-01567)
Antigen Species:	Mouse
Synonyms:	retinol binding protein 4, plasma

Research Background

Retinol-binding protein 4 (RBP4) is the specific carrier for retinol (also known as vitamin A), and is responsible for the conversion of unstable and insoluble retinol in aqueous solution into stable and soluble complex in plasma through their tight interaction. As a member of the lipocalin superfamily, RBP4 containing a β -barrel structure with a well-defined cavity is secreted from the liver, and in turn delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP4-retinol complex interacts with transthyretin (TTR), and this binding is crucial for preventing RBP4 excretion through the kidney glomeruli. RBP4 expressed from an ectopic source efficiently delivers retinol to the eyes, and its deficiency affects night vision largely. Recently, RBP4 as an adipokine, is found to be expressed in adipose tissue and correlated with obesity, insulin resistance (IR) and type 2 diabetes (T2DM).

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