



Datasheet for ABIN1169044

anti-RBP4 antibody



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Overview

Quantity:	100 µg
Target:	RBP4
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Recombinant mouse RBP4.
Specificity:	Recognizes mouse RBP4. Detects a band of ~22-25 kDa by Western blot.
Cross-Reactivity:	Mouse (Murine)
Sterility:	0.2 µm filtered

Target Details

Target:	RBP4
Alternative Name:	RBP4 (RBP4 Products)
Background:	Retinol binding protein 4 (RBP4, RBP) is a 21 kDa secreted protein, a member of the lipocalin family and is known as the primary transporter of retinol (vitamin A) to tissues. A recent report revealed RBP4 as an adipokine linking glucose transporter 4 (GLUT4) suppression in adipose tissue to insulin. Elevated human and mouse serum RBP4 levels are associated with insulin resistance and its severity, obesity and certain components of metabolic syndrome.

Target Details

Furthermore, human serum RBP4 levels are closely related to renal function.

UniProt: [Q00724](#)

Pathways: [Regulatory RNA Pathways](#), [Positive Regulation of Peptide Hormone Secretion](#), [Carbohydrate Homeostasis](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: 0.2µm-filtered solution in PBS, pH 7.4. Contains no preservatives.

Preservative: Without preservative

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C
Long Term Storage: -20°C
Stable for at least 6 months after receipt when stored at -20°C.

Expiry Date: 6 months

Publications

Product cited in: Yoshida, Taguchi, Kawana, Ogishima, Adachi, Kawata, Nakamura, Sato, Fujimoto, Inoue, Tomio, Mori, Nagamatsu, Arimoto, Koga, Hiraike, Oda, Kiyono, Osuga, Fujii: "Intraperitoneal neutrophils activated by KRAS-induced ovarian cancer exert antitumor effects by modulating adaptive immunity." in: **International journal of oncology**, Vol. 53, Issue 4, pp. 1580-1590, (2018) ([PubMed](#)).

Henderson, Hobbs, Mathies, Hogg: "Rapid recruitment of inflammatory monocytes is independent of neutrophil migration." in: **Blood**, Vol. 102, Issue 1, pp. 328-35, (2003) ([PubMed](#)).

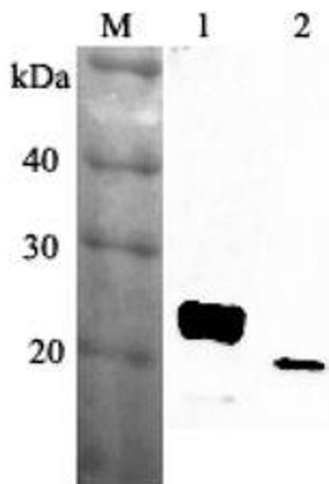
de Vries, Köhl, Leclercq, Wolfs, van Bijnen, Heeringa, Buurman: "Complement factor C5a

mediates renal ischemia-reperfusion injury independent from neutrophils." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 170, Issue 7, pp. 3883-9, (2003) ([PubMed](#)).

Tacchini-Cottier, Zweifel, Belkaid, Mukankundiye, Vasei, Launois, Milon, Louis: "An immunomodulatory function for neutrophils during the induction of a CD4+ Th2 response in BALB/c mice infected with *Leishmania major*." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 165, Issue 5, pp. 2628-36, (2000) ([PubMed](#)).

Al-Qaoud, Pearlman, Hartung, Klukowski, Fleischer, Hoerauf: "A new mechanism for IL-5-dependent helminth control: neutrophil accumulation and neutrophil-mediated worm encapsulation in murine filariasis are abolished in the absence of IL-5." in: **International immunology**, Vol. 12, Issue 6, pp. 899-908, (2000) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis using anti-RBP4 (mouse), pAb at 1:2'000 dilution. 1: Mouse RBP4 (His-tagged). 2: Mouse serum (ob/ob) (2µl).