bs-1630R **[Primary Antibody]**

CEBP-alpha Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1050 **SWISS:** P49715

Target: CEBP-alpha

Immunogen: KLH conjugated synthetic peptide derived from human CEBP-alpha: 251-358/358.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this intronless gene is a bZIP transcription factor which can bind as a homodimer to certain promoters and enhancers. It can also form heterodimers with the related proteins CEBP-beta and CEBP-gamma. The encoded protein has been shown to bind to the promoter and modulate the expression of the gene encoding leptin, a protein that plays an important role in body weight homeostasis. Also, the encoded protein can interact with CDK2 and CDK4, thereby inhibiting these kinases and causing growth arrest in cultured cells. [provided by RefSeq, Jul 2008].

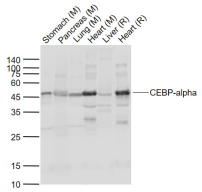
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW.: 39 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Lane 1: Stomach (Mouse) Lysate at 40 ug Lane 2: Pancreas (Mouse) Lysate at 40 ug Lane 3: Lung (Mouse) Lysate at 40 ug Lane 4: Heart (Mouse) Lysate at 40 ug Lane 5: Liver (Rat) Lysate at 40 ug Lane 6: Heart (Rat) Lysate at 40 ug Primary: Anti-CEBP-alpha (bs-24540R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 46 kD

SELECTED CITATIONS

- **[IF=9.2]** Lan Qun. et al. Gut-resident Phascolarctobacterium succinatutens decreases fat accumulation via MYC-driven epigenetic regulation of arginine biosynthesis. NPJ BIOFILMS MICROBI. 2025 Aug;11(1):1-21 WB ;Mouse. 40753182
- **[IF=5.116]** Pengyu Hong. et al. Therapeutic potential of small extracellular vesicles derived from lipoma tissue in adipose tissue regeneration—an in vitro and in vivo study. Stem Cell Res Ther. 2021 Dec;12(1):1-13 IHC ;Human. 33789709
- **[IF=4.6]** Meng Sun. et al. Extracellular vesicles derived from dental follicle stem cells regulate tooth eruption by inhibiting osteoclast differentiation. FRONT CELL DEV BIOL. 2024 Dec;12: IHC ;Rat. 39834384
- **[IF=4.9]** Jae Young Park. et al. Anti-Obesity Properties of Blackberries Fermented with L. plantarum JBMI F5 via

Suppression of Adipogenesis Signaling Mechanisms. INT J MOL SCI. 2024 Jan;25(11):6164 WB,IHC ;Mouse. 38892352

- **[IF=3.8]** Weipeng Zhang. et al. Cross-generational effects of dietary sea buckthorn on non-alcoholic fatty liver disease in offspring of obese female mice. J FUNCT FOODS. 2024 Oct;121:106398 WB ;Mouse. 10.1016/j.jff.2024.106398