bs-22235R **[Primary Antibody]**

Mafa Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 389692 **SWISS:** Q8NHW3

Target: Mafa

Immunogen: KLH conjugated synthetic peptide derived from human Mafa : 71-170/352.

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: Insulin gene expression is regulated by several islet-enriched transcription factors. However, MAFA is the only beta cell-specific activator. MAFA selectively induces endogenous insulin transcription in non-beta cells. MAFA was also first detected in the insulin-producing cells formed during the second and predominant phase of beta cell differentiation, and absent in the few insulin-positive cells found in Nkx6.1(-/-) pancreata, which lack the majority of second-phase beta cells. These results demonstrate that MAFA is a potent insulin activator that is likely to function downstream of Nkx6.1 during islet insulin-producing cell development.

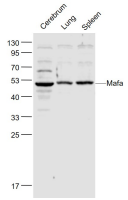
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat (predicted: Human, Pig, Cow, Chicken)

Predicted MW.: 37 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Cerebrum (Rat) Lysate at 40 ug Lung (Mouse) Lysate at 40 ug Spleen (Mouse) Lysate at 40 ug Primary: Anti- Mafa (bs-22235R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kD Observed band size: 50 kD

SELECTED CITATIONS

- **[IF=5]** Peibin Lin. et al. Naringenin protects pancreatic β cells in diabetic rat through activation of estrogen receptor β. EUR J PHARMACOL. 2023 Dec;960:176115 WB ;Rat. 37866740