bs-1843R **[Primary Antibody]**

LEF-1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 51176 **SWISS:** Q9UJU2

Target: LEF-1

Immunogen: KLH conjugated synthetic peptide derived from human LEF-1: 331-399/399.

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: This gene encodes a transcription factor belonging to a family of proteins that share homology with the high mobility group protein-1. The protein encoded by this gene can bind to a functionally important site in the T-cell receptor-alpha enhancer, thereby conferring maximal enhancer activity. This transcription factor is involved in the Wnt signaling pathway, and it may function in hair cell differentiation and follicle morphogenesis. Mutations in this gene have been found in somatic sebaceous tumors. This gene has also been linked to other cancers, including androgen-independent prostate cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009].

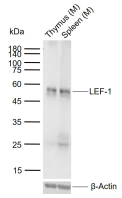
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/test)

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

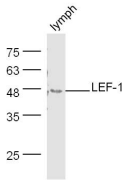
Predicted MW.: 44 kDa

Subcellular Location: Nucleus

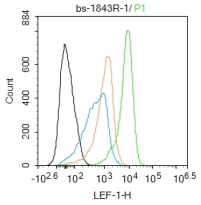
VALIDATION IMAGES



Sample: Lane 1: Mouse Thymus tissue lysates Lane 2: Mouse Spleen tissue lysates Primary: Anti-LEF-1 (bs-1843R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kDa Observed band size: 55 kDa



Sample: Lymph nodes (Mouse) Lysate at 30 ug Primary: Anti- LEF-1 (bs-1843R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/10000 dilution Predicted band size: 44 kD Observed band size: 47 kD



Blank control（black line）:Molt4. Primary Antibody (green line): Rabbit Anti-LEF-1 antibody (bs-1843R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Negative control（white blue line）：PBS Isotype control（orange line）：Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=14.957]** Takamitsu Maruyama. et al. GATA3 mediates nonclassical β-catenin signaling in skeletal cell fate

determination and ectopic chondrogenesis. SCI ADV. 2022 Nov; IF ;Mouse. 36449606

- **[IF=6.832]** Wu, Haibin. et al. Dextran sulfate prevents excess aggregation of human pluripotent stem cells in 3D culture by inhibiting ICAM1 expression coupled with down-regulating E-cadherin through activating the Wnt signaling pathway. STEM CELL RES THER. 2022 Dec;13(1):1-20 WB ;Human. 35619172
- **[IF=4.566]** Feng Ziqiang. et al. In Ovo Injection of CHIR-99021 Promotes Feather Follicle Development via Modulating the Wnt Signaling Pathway and Transcriptome in Goose Embryos (Anser cygnoides). FRONT PHYSIOL. 2022 May;0:811 WB ;Bird. 35669574
- **[IF=4.4]** Sihui Wang. et al. Dermal FOXO3 activity in response to Wnt/β-catenin signaling is required for feather follicle development of goose embryos (Anser cygnoides). POULTRY SCI. 2024 Jan;:103424 WB ;Goose. 38330682
- **[IF=2.76]** Song, Honghua, et al. "The Regenerating Spinal Cord of Gecko Maintains Unaltered Expression of β-Catenin Following Tail Amputation." Journal of Molecular Neuroscience (2014): 1-10. WB ;. 25178821