bs-12244R **[Primary Antibody]**

HOXA13 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3209 **SWISS:** P31271

Target: HOXA13

Immunogen: KLH conjugated synthetic peptide derived from Human HOXA13: 332-388/388.

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 Hox proteins play a role in development and cellular differentiation by regulating downstream target genes. Specifically, the Hox proteins direct DNA-protein and protein-protein interactions that assist in determining the morphologic features associated with the anterior-posterior body axis. HoxA13 and HoxD13 also bind to other BMP and TGF-beta/Activin-regulated Smad proteins including Smad1 and Smad2, but not Smad4. In humans and mice, loss of HOXA13 function causes defects in the growth and patterning of the digits and interdigital tissues. Analysis of HoxA13 expression reveals a pattern of localization overlapping with sites of reduced Bmp2 and Bmp7 expression in HoxA13 mutant limbs. HoxA13 regulates Bmp2 and Bmp7 expression, providing a link between HoxA13, its target genes and the specific developmental processes affected by loss of HoxA13 function.

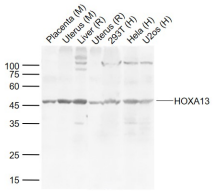
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

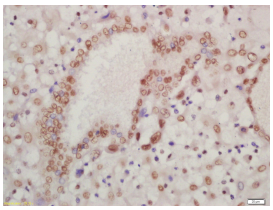
Predicted MW.: 40 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Lane 1: Placenta (Mouse) Lysate at 40 ug Lane 2: Uterus (Mouse) Lysate at 40 ug Lane 3: Liver (Rat) Lysate at 40 ug Lane 4: Uterus (Rat) Lysate at 40 ug Lane 5: 293T (Human) Cell Lysate at 30 ug Lane 6: Hela (Human) Cell Lysate at 30 ug Lane 7: U2os (Human) Cell Lysate at 30 ug Primary: Anti-HOXA13 (bs-12244R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 46 kD



Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-HOXA13 Polyclonal Antibody, Unconjugated(bs-12244R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=2.6]** Bozkurt Ahmet Sarper. et al. The regenerative effect of exosomes isolated from mouse embryonic fibroblasts in mice created as a sciatic nerve crush injury model. MOL BIOL REP. 2024 Dec;51(1):1-14 IHC ;Mouse. 39388029