**bs-2946R** **[ Primary Antibody ]**

# HAS1 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 3036 **SWISS:** Q92839

**Target:** HAS1

**Immunogen:** KLH conjugated synthetic peptide derived from human Hyaluronan synthase 1: 501-578/578. < Extracellular >

**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:** HAS1, HAS2 and HAS3 are HA Synthase proteins that synthesize HA (Hyaluronan or hyaluronic acid). The extracellular matrix in most vertebrates express HA, which is a high molecular weight linear polysaccharide composed of alternating glucuronic acid and N-acetylglucosamine residues linked by beta-1,3 and beta-1,4 glycosidic bonds. The three HAS genes show distinct patterns of expression during development and their protein products play significantly different roles in the formation of the HA matrix. Both HAS1 and HAS2 synthesize high molecular weight HA, whereas HAS3 produces lower molecular weight HA. The expression of the three HAS isoforms is more prominent in growing cells than in resting cells and is differentially regulated by various stimuli, suggesting distinct functional roles of the three proteins. HAS1 mRNA shows predominant expression in bone marrow mesenchymal progenitor cells and synovial cells.

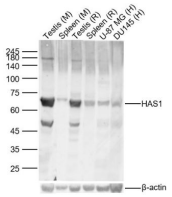
**Applications:** **WB** (1:500-2000)

**Reactivity:** Human, Mouse, Rat (predicted: Pig, Sheep, Cow)

**Predicted MW.:** 65 kDa

**Subcellular Location:** Cell membrane

## VALIDATION IMAGES




Sample: Lane 1: Mouse Testis Lysates Lane 2: Mouse Spleen Lysates Lane 3: Rat Testis Lysates Lane 4: Rat Spleen Lysates Lane 5: Human U-87 MG cell Lysates Lane 6: Human DU145 cell Lysates Primary: Anti-HAS1 (bs-2946R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 65kDa Observed band size: 65kDa

## SELECTED CITATIONS


- **[IF=49.962]** Pascual, Gloria. et al. Dietary palmitic acid promotes a prometastatic memory via Schwann cells. Nature. 2021 Nov;:1-6 IF ;Mouse. 34759321
- **[IF=3.6]** Romana Šínová. et al. The hyaluronan metabolism in the UV-irradiated human epidermis and the relevance of in vitro epidermal models. EXP DERMATOL. 2023 Jul;: IF ;Human. 37443444
- **[IF=2.22]** Yang, Guofeng, et al. "Hyaluronan and hyaluronan synthases expression and localization in embryonic mouse

molars." Journal of Molecular Histology: 1-8. IHC ;="Mouse". 27318667