bs-5898R **[Primary Antibody]**

HIF3 alpha Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 64344 **SWISS:** Q9Y2N7

Target: HIF3 alpha

Immunogen: KLH conjugated synthetic peptide derived from human HIF3 alpha: 131-230/669.

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: Hypoxia-inducible factor (HIF) is one of the most important factors in the cellular response to hypoxia, transcriptionally activating genes encoding proteins that mediate adaptive responses to reduced oxygen availability. HIF is a heterodimer consisting of one of three subunits, HIF1 alpha, HIF2 alpha, or HIF3 alpha. HIF target genes play critical roles in metabolism, angiogenesis, cell proliferation and cell survival. HIF3 alpha protein is one of several alpha/beta-subunit heterodimeric transcription factors that regulate many adaptive responses to low oxygen tension (hypoxia). The alpha 3 subunit lacks the transactivation domain found in factors containing either the alpha 1 or alpha 2 subunits. HIF3 alpha may be a marker for tumor growth and angiogenesis.

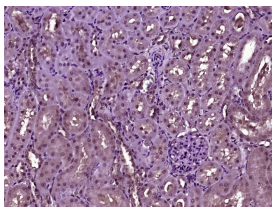
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:50-200)
ELISA (1:5000-10000)

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

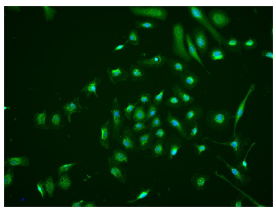
Predicted MW.: 74 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HIF3 alpha) Polyclonal Antibody, Unconjugated (bs-5898R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



HUVEC cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (HIF3 alpha) polyclonal Antibody, Unconjugated (bs-5898R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=18.5]** Xin Yang. et al. PdZn/CoSA-NC Nanozymes with Highly Efficient SOD/CAT Activities for Treatment of Osteoarthritis via Regulating Immune Microenvironment. ADV FUNCT MATER. 2024 Jul;:2401963 IF ;Mouse. 10.1002/adfm.202401963
- **[IF=14.7]** Jingru Wang. et al. Zinc oxide nanoparticles with catalase-like nanozyme activity and near-infrared light response: A combination of effective photodynamic therapy, autophagy, ferroptosis, and antitumor immunity. ACTA

PHARM SIN B. 2024 Jul;: IF ;Mouse. 10.1016/j.apsb.2024.07.002

- **[IF=1.832]** He Y et al. Association of Age with the Expression of Hypoxia-Inducible Factors HIF-1α, HIF-2α, HIF-3α and VEGF in Lung and Heart of Tibetan Sheep. Animals (Basel). 2019 Sep 11;9(9). pii: E673. IHC ;Sheep. 31514457