bs-1294R **[Primary Antibody]**

ODC1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4953 **SWISS:** P11926

Target: ODC1

Immunogen: KLH conjugated synthetic peptide derived from human ODC1: 321-461/461.

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: Ornithine Decarboxylase (ODC) is the initial and rate limiting enzyme in the biosynthetic pathway of polyamines and is involved in the conversion of ornithine to putrescine. The biological activity of ODC is rapidly induced in response to virtually all agents known to promote cell proliferation including hormones, drugs, growth factors, mitogens, and tumor promoters. Reportedly, ODC mRNA levels are elevated in lung carcinomas as well as in colon adenomas and carcinomas. ODC activity in colorectal carcinomas is greater than those in adenomas and normal mucosa.

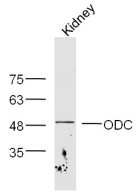
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

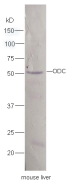
Predicted MW.: 51 kDa

Subcellular Location: Cytoplasm

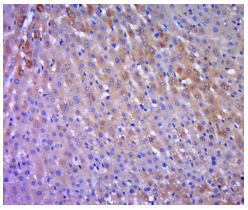
VALIDATION IMAGES



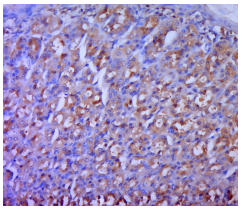
Sample: Kidney(Mouse) lysate at 30ug; Primary: Anti-ODC(bs-1294R) at 1:300 dilution; Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1: 5000 dilution; Predicted band size:51 kD Observed band size:51 kD



Sample:Liver(Mouse) lysate at 30ug; Primary: Anti-ODC(bs-1294R) at 1:300 dilution; Secondary: AP conjugated Goat Anti-Rabbit IgG(bs-0295G-AP) at 1: 5000 dilution; Predicted band size : 51kD Observed band size : 51kD



Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); 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 (ODC) Polyclonal Antibody, Unconjugated (bs-1294R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); 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 (ODC) Polyclonal Antibody, Unconjugated (bs-1294R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=6.7]** Fengting Yin. et al. Spatially resolved multi-omics reveals the renal cortex-metabolic reprogramming of Shenhua Tablet for intervention on IgA nephropathy. PHYTOMEDICINE. 2025 Jun;141:156742 IHC,IF ;Rat. 40233505
- **[IF=4.492]** Jing Wanget al. Regulatory role of l-proline in fetal pig growth and intestinal epithelial cell proliferation. Anim Nutr . 2020 Dec;6(4):438-446. WB ;pig. 33364460
- **[IF=3.789]** Wang, Hongliang. et al. A new 68Ga-labeled ornithine derivative for PET imaging of ornithine metabolism in tumors. AMINO ACIDS. 2023 Feb;:1-12 IHC ;Mouse. 36809562
- **[IF=3.8]** Qi Wang. et al. Deciphering relationship between depression and microbial molecules based on multi-omics: A case study of Chaigui Granules. CHIN HERB MED. 2024 Feb;: WB ;Rat. 10.1016/j.chmed.2023.12.003
- **[IF=2.83]** Chen, Shaokui, et al. "Asparagine improves intestinal integrity, inhibits TLR4 and NOD signaling, and differently regulates p38 and ERK1/2 signaling in weanling piglets after LPS challenge." Innate Immunity (2016): 1753425916664124. WB ;="Pig". 27554055