bs-3978R **[Primary Antibody]**

ENO1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2023 **SWISS:** P06733

Target: ENO1

Immunogen: KLH conjugated synthetic peptide derived from human ENO1: 51-150/434.

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: Enolase 1 is a multifunctional enzyme that, as well as its role in glycolysis, plays a part in various processes such as growth control, hypoxia tolerance and allergic responses. May also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of plasminogen on the cell surface of several cell-types such as leukocytes and neurons. Stimulates immunoglobulin production. MBP1 binds to the myc promoter and acts as a transcriptional repressor. May be a tumor suppressor.
Enolase 2 has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. Binds, in a calcium-dependent manner, to cultured neocortical neurons and promotes cell survival.
Enolase 3 appears to have a function in striated muscle development and regeneration.

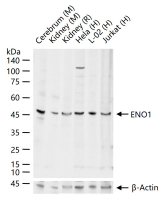
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Cow)

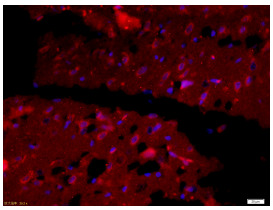
Predicted MW.: 47 kDa

Subcellular Location: Cell membrane ,Nucleus

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with ENO1 polyclonal antibody, unconjugated (bs-3978R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Tissue/cell: Rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-ENO1 Polyclonal Antibody, Unconjugated(bs-3978R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

SELECTED CITATIONS

- **[IF=6.162]** Zhang W et al. Cinnamaldehyde Enhances Antimelanoma Activity through Covalently Binding ENO1 and Exhibits a Promoting Effect with Dacarbazine. Cancers (Basel). 2020 Jan 29;12(2). pii: E311. IF ;Mouse. 32013122

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=5.732]** Sun Wei. et al. The effects of maternal anti-alpha-enolase antibody expression on the brain development in offspring. CLIN EXP IMMUNOL. 2022 Sep;: IF,WB ;Mouse. 36149061
- **[IF=4.6]** Tianming Lu. et al. Inhibition of ALDOA and ENO1-mediated Glycolysis of Oridonin as a Novel Anti-tumor Strategy of Non-small Cell Lung Cancer. Advanced Therapeutics. 2024 Apr;:2400027 WB,IF ;Mouse. 10.1002/adtp.202400027
- **[IF=4.6]** Rongsong Jiang. et al. Evaluating the Anti-Melanoma Effects and Toxicity of Cinnamaldehyde Analogues. MOLECULES. 2023 Jan;28(21):7309 IF ;Mouse. 37959729
- **[IF=3.943]** Yihan Lu et al. Experimental evidence for alpha enolase as one potential autoantigen in the pathogenesis of both autoimmune thyroiditis and its related encephalopathy. Int Immunopharmacol. 2020 Aug;85:106563. IF ;Mouse. 32442899

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