

# **ENO1** Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5166

#### **Product Information**

**Application** IF, FC, IHC-P, WB

Primary Accession <u>P06733</u>

Other Accession P08734, P04764, P17182, Q4R5L2, P51913, Q9XSI4

**Reactivity** Human, Mouse

**Predicted** Rat, Monkey, Bovine, Chicken, Xenopus

Host Rabbit
Clonality Polyclonal
Calculated MW 47 KDa
Isotype Rabbit IgG
Antigen Source HUMAN

#### **Additional Information**

Antigen Region 178-205

Other Names ENO1; ENO1L1; MBPB1; MPB1; Alpha-enolase; 2-phospho-D-glycerate

hydro-lyase; C-myc promoter-binding protein; Enolase 1; MBP-1; MPB-1; Non-neural enolase; Phosphopyruvate hydratase; Plasminogen-binding

protein

**Dilution** IF~~1:10~50 FC~~1:10~50 IHC-P~~1:100~500 WB~~1:1000

**Target/Specificity** This ENO1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 178-205 amino acids from the Central

region of human ENO1.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** ENO1 Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **Protein Information**

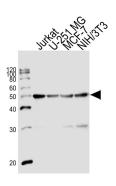
## **Background**

ENO1 is one of three enolase isoenzymes found in mammals; it is alpha-enolase, a homodimeric soluble enzyme, and also a shorter monomeric structural lens protein, tau-crystallin. The two proteins are made from the same message. The full length protein, the isoenzyme, is found in the cytoplasm. The shorter protein is produced from an alternative translation start, is localized to the nucleus, and has been found to bind to an element in the c-myc promoter.

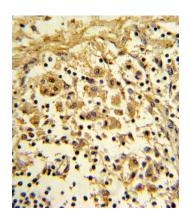
#### References

Cappello, P., Int. J. Cancer 125 (3), 639-648 (2009) Obermajer, N., Int. J. Biochem. Cell Biol. 41 (8-9), 1685-1696 (2009) Wygrecka, M., Blood 113 (22), 5588-5598 (2009)

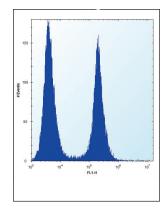
### **Images**



Western blot analysis of lysates from Jurkat,U-251 MG,MCF-7,mouse NIH/3T3 cell line (from left to right), using ENO1 Antibody (Center)(Cat. #AW5166). AW5166 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

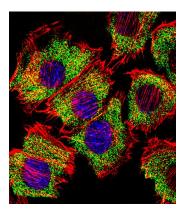


Formalin-fixed and paraffin-embedded human lymph reacted with ENO1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ENO1 Antibody (Center) (Cat. #AW5166) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

Fluorescent confocal image of C2C12 cell stained with ENO1 Antibody (Center)(Cat#AW5166).C2C12 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with ENO1 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody



(green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10  $\mu$ g/ml, 10 min). ENO1 immunoreactivity is localized to Cytoplasm significantly.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.