

**Mouse Anti-ENO1/Enolase 1 [8G8]: MC0350, MC0350RTU7**

**Intended Use:** For Research Use Only

**Description:** Enolase is an important glycolytic enzyme involved in the interconversion of 2-phosphoglycerate to phosphoenolpyruvate. Mammalian enolase exists as three subunits: enolase-1 ( $\alpha$ -enolase), enolase-2 ( $\gamma$ -enolase) and enolase-3 ( $\beta$ -enolase) that can form both homo- and heterodimers. Expression of the enolase isoforms differs in a tissue specific manner. Enolase-1 plays a key role in anaerobic metabolism under hypoxic conditions and may act as a cell surface plasminogen receptor during tissue invasion. Abnormal expression of enolase-1 is associated with tumor progression in some cases of breast and lung cancer. Alternatively, an enolase-1 splice variant (MBP-1) binds the c-myc promoter p2 and may function as a tumor suppressor. For this reason enolase-1 is considered as a potential therapeutic target in the treatment of some forms of cancer.

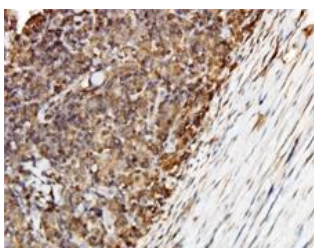
**Specifications**

Clone: 8G8  
 Source: Mouse  
 Isotype: IgG1  
 Reactivity: Human  
 Immunogen: Full-length, recombinant, human, ENO1 (aa1-435), expressed as a GST fusion protein  
 Localization: Cytoplasm, nucleus, membrane  
 Formulation: Antibody in PBS pH 7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, ICC, WB  
 Package:

| Description                       | Catalog No. | Size |
|-----------------------------------|-------------|------|
| ENO1/Enolase 1 [8G8] Concentrated | MC0350      | 1 ml |
| ENO1/Enolase 1 [8G8] Prediluted   | MC0350RTU7  | 7 ml |

**IHC Procedure\***

Positive Control Tissue: Lymphoma tissue, HeLa cells, MCF-7 cells  
 Concentrated Dilution: 25-100  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human lymphoma stained with anti-ENO1 using DAB

**References:**

1. Proteomic profiling of SupT1 cells reveal modulation of host proteins by HIV-1 Nef variants. Saxena R, et al. PLoS One 10:e0122994, 2015.
2. Systematic Analysis Reveals Elongation Factor 2 and  $\alpha$ -Enolase as Novel Interaction Partners of AKT2. Bottermann K, et al. PLoS One 8:e66045, 2013.
3. Impact of genomic stability on protein expression in endometrioid endometrial cancer. Lomnytska MI, et al. Br J Cancer 106:1297-305, 2012.

Doc. 100-MC0350  
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