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DATA SHEET

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 (α-enolase), enolase-2 (γ-enolase) and enolase-3 (β-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-legth, 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 ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, ICC, WB

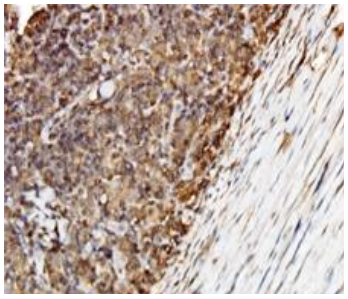
Package:

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 min Pressure Cooker or 30-60 min 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 a-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.

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