Enolase-1 Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications: WB, IP
Reactivity: H M R Mk
Sensitivity: Endogenous
MW (kDa): 47
Source: Rabbit
UniProt ID: P06733
Entrez-Gene Id: 2023

Product Usage Information

Application | Dilution |
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Western Blotting | 1:1000 |
Immunoprecipitation | 1:50 |

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Enolase-1 Antibody detects endogenous levels of total enolase-1 protein and does not cross-react with enolase-2.

Species Reactivity:
Human, Mouse, Rat, Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human enolase-1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

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 (1). Enolase-1 plays a key role in anaerobic metabolism under hypoxic conditions and may act as a cell surface plasminogen receptor during tissue invasion (2,3). Abnormal expression of enolase-1 is associated with tumor progression in some cases of breast and lung cancer (4-7). 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 (8).

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