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## Enolase-2 (D20H2) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 47	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P09104	<b>Entrez-Gene Id:</b> 2026
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

Enolase-2 (D20H2) Rabbit mAb recognizes endogenous levels of total enolase-2 protein. May cross-react with exogenous levels of enolase-1.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human enolase-2 protein.

### Background

Enolase is a glycolytic enzyme that is involved in the conversion of 2-phosphoglycerate to phosphoenolpyruvate (1). Mammalian enolase has three subunits:  $\alpha$ ,  $\beta$ , and  $\gamma$ , that can form homo and heterodimers. Homodimers of  $\gamma$  enolase are neuronal-specific (2). Research studies have shown elevated levels of neuro-specific enolase-2 in neuroblastoma (2) and small-cell lung cancer (3,4).

### Background References

1. Van Obberghen, E. et al. (1988) *J Neurosci Res* 19, 450-6.
2. Pancholi, V. (2001) *Cell Mol Life Sci* 58, 902-20.
3. Stern, P. et al. (2007) *Tumour Biol* 28, 84-92.
4. O'Shea, P. et al. (1995) *Ir J Med Sci* 164, 31-6.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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