

Store at
-20°C

Enolase-2 (E7D7I) Rabbit mAb



#65162

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orders@cellsignal.comEntrez-Gene ID #2026
UniProt ID #P09104

New 07/19

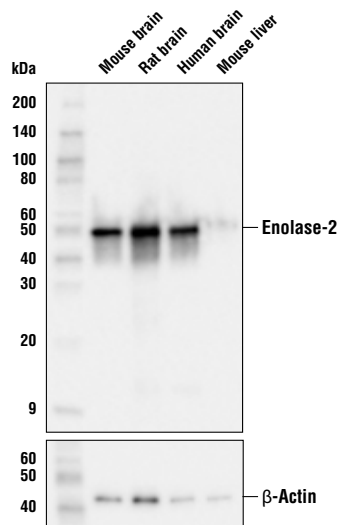
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Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IF-IC, IF-F, F Endogenous	H, M, R	47 kDa	Rabbit IgG**

Background: Enolase is a glycolytic enzyme that is involved in the conversion of 2-phosphoglycerate to phosphoenolpyruvate (1). Mammalian enolase has three subunits: α , β , and γ , that can form homo and heterodimers. Homodimers of γ 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).

Specificity/Sensitivity: Enolase-2 (E7D7I) Rabbit mAb recognizes endogenous levels of total Enolase-2 protein. This antibody does not cross-react with human Enolase-1 protein.

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.



Western blot analysis of extracts from mouse brain, rat brain, human brain, and mouse liver using Enolase-2 (E7D7I) Rabbit mAb (upper) and β -Actin (D6A8) Rabbit mAb #8457 (lower).

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

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunofluorescence (IF-IC)	1:200-1:800
Fixative:	4% Formaldehyde
Permeabilization:	0.3% Triton X-100
Immunofluorescence (IF-F)	1:200-1:800
Fixative:	4% Formaldehyde
Permeabilization:	0.3% Triton X-100
Flow Cytometry	1:200 - 1:800

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

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.

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

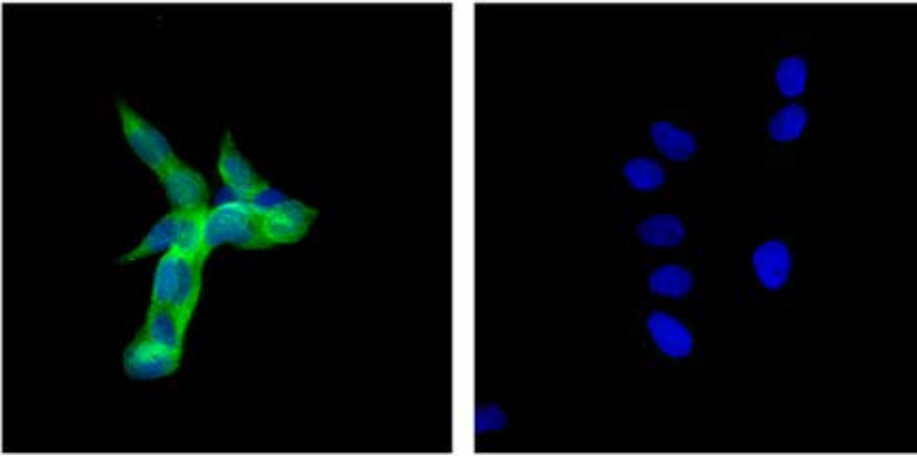
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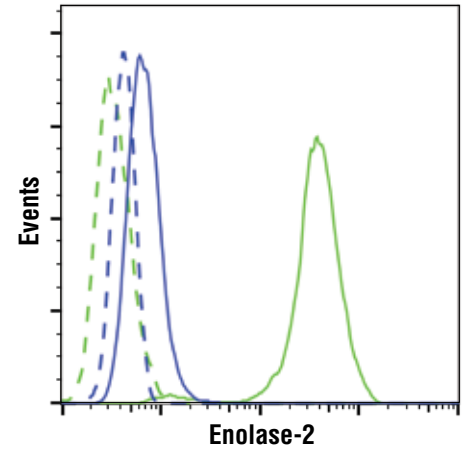
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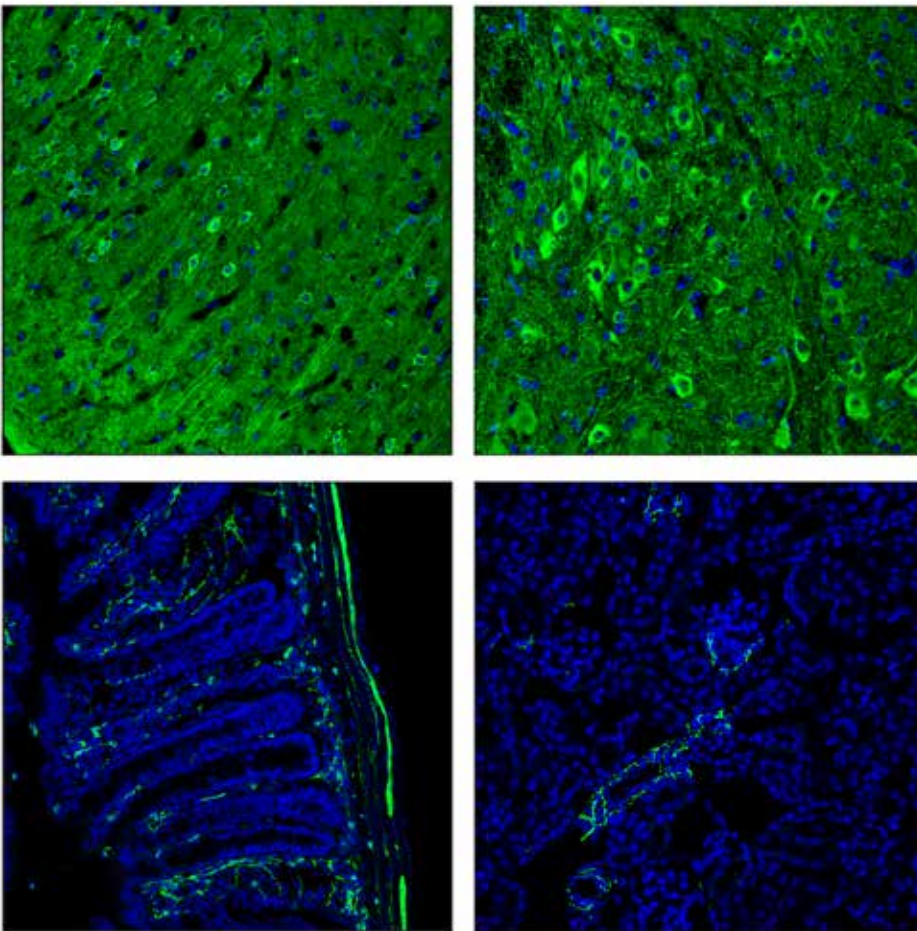
Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Confocal immunofluorescent analysis of TT cells (left, positive) or Huh7 cells (right, negative) using Enolase-2 (E7D71) Rabbit mAb (green). Nuclei were labeled with DAPI #4083 (blue).



Flow cytometric analysis of THP-1 cells (blue) and TT cells (green) using Enolase-2 (E7D71) Rabbit mAb (solid lines) or a concentration-matched Rabbit (DA1E) mAb IgG XP[®] Isotype Control #3900 (dashed lines). Anti-rabbit IgG (H+L), F(ab')₂ Fragment (Alexa Fluor[®] 488 Conjugate) #4412 was used as a secondary antibody.



Confocal immunofluorescent analysis of mouse tissue showing neural-specific staining of the cortex (left-top), spinal cord (right-top), enteric nerves of the colon (left-bottom), and nerve fibers of renal arterioles (right-bottom), using Enolase-2 (E7D71) Rabbit mAb (green). Sections are mounted with ProLong[®] Gold Antifade Reagent with DAPI #8961 (blue).

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