Revision 3

Store at -20C

#24330

Enolase-2 (E2H9X) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H M R	Endogenous	47	Rabbit IgG	#P09104	2026

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:50 - 1:200

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.

For a carrier free (BSA and azide free) version of this product see product #29528.

Specificity/Sensitivity

Enolase-2 (E2H9X) XP® 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.

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).

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 **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

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

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