

AB-PN512

ENO2-pY25 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human ENO2



KINEXUS

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Target Protein

Name Long:	Gamma-enolase
Alias:	2-phospho-D-glycerate hydro-lyase; 2-phospho-D-glycerate hydrolyase; ENO2; ENOG; Enolase 2; enolase 2 (gamma, neuronal); Gamma-enolase; Neural enolase; neuron specific gamma enolase; Neuron-specific enolase; neurone-specific enolase; NSE
UniProt ID:	P09104
Sequence Predicted Mass (KDa):	47.269 (434 AA; P09104-1); 42.707 (391 AA; P09104-2)
Observed SDS-PAGE Mass (KDa):	45-55

Immunogen

Antibody Immunogen Source:	Human ENO2 sequence peptide Cat. No.: PE-04ACT95
Antibody Immunogen Sequence:	VDL(pY)TAK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues V22 to K28; In the Enolase_N domain. This is one of the major in vivo phosphorylation sites in ENO2.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-25

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150115
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactivities detected in A431 and A549 cells, although background is a little high with EGF treatment of A549 cells

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)