

## Product datasheet for **AP31816PU-N**

### **NSE (ENO2) Chicken Polyclonal Antibody**

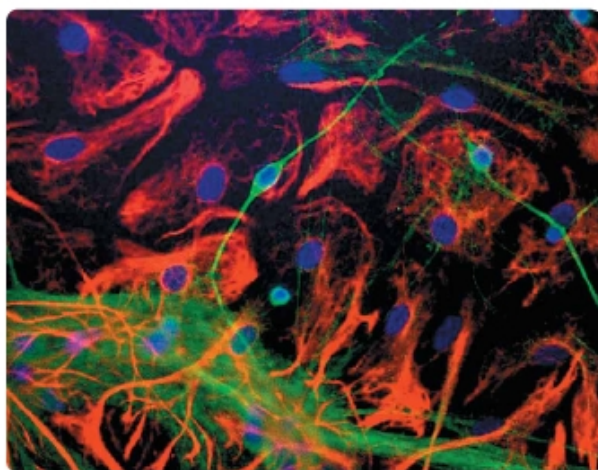
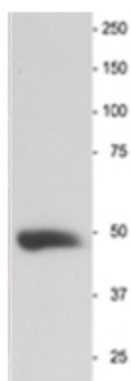
#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot.</b> <b>Immunocytochemistry.</b> <b>Immunohistochemistry.</b> <i>Recommended Dilutions:</i> 1/5000-1/10000 for Western Blots. 1/2000-1/5000 for Immunohistochemistry and Immunocytochemistry using 2% paraformaldehyde-fixed tissues or cells. <b>Quality Control:</b> Both of these anti-peptide antibodies were analyzed by Immunohistochemistry (at a dilution of 1/5000) using Fluorescein-labeled Goat anti-Chicken IgY (1/500 dilution, Cat.-No AP31795FC-N) as the secondary reagent.
Reactivity:	Human, Mouse, Rat
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Chickens were immunized with two synthetic peptide KLH conjugates corresponding to different regions of the NSE-2 gene product, but are shared between the Human (NP_001966, NCBI) and Rat (AAA41119) sequences. <b>Production:</b> After repeated injections into the hens, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified using a peptide column, and the concentrations of the eluates adjusted to 0.2 mg/ml. Finally, equal volumes of each of these affinity-purified anti-peptide antibodies were mixed, and the preparation was filter-sterilized.
Specificity:	Recognizes Neuron-Specific Enolase-2 (NSE).
Formulation:	10mM PBS, pH 7.2 containing 0.02% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified (filter sterilized) IgY fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using a peptide column.



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Conjugation:	Unconjugated
Storage:	Store the antibody undiluted in the dark at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	enolase 2
Database Link:	<a href="#">Entrez Gene 13807 Mouse</a> <a href="#">Entrez Gene 24334 Rat</a> <a href="#">Entrez Gene 2026 Human P09104</a>
Background:	Human NSE-2 (EC 4.2.1.11) is a 47,138 dalton protein (434 amino acids) expressed in neurons of the peripheral nervous system (PNS) and central nervous system (CNS). NSE-2 catalyzes the conversion of 2-phospho-D-glycerate into phosphoenol pyruvate, and is an essential enzyme in energy metabolism in nervous tissues.
Synonyms:	NSE, ENO2, Enolase 2, Neural enolase, Gamma-enolase
Protein Pathways:	Glycolysis / Gluconeogenesis, Metabolic pathways, RNA degradation

**Product images:**

Dissociated cell cultures of neonatal Mouse brains, showing NSE-2 (green staining) in neurons. These cultures were counter-stained with a Rabbit anti-GFAP antibody to localize astrocytes, as well as with DAPI (blue staining) to localize nuclei.