

## NSE Recombinant monoclonal antibody

Catalog Number: 86332-1-RR

## Basic Information

Catalog Number:	86332-1-RR	GenBank Accession Number:	BC002745	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	2026	CloneNo.:	250903A11
Isotype:	IgG	UNIPROT ID:	P09104-1	Recommended Dilutions:	WB: 1:5000-1:50000 IHC: 1:200-1:800
Immunogen Catalog Number:	AG0196	Full Name:	enolase 2 (gamma, neuronal)		
		Calculated MW:	47 kDa		
		Observed MW:	47 kDa		

## Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Species Specificity:	human, mouse, rat	WB :	HepG2 cells, mouse brain tissue, ACHN cells, SW480 cells, HT-29 cells, rat brain tissue, fetal human brain tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>		IHC :	rat brain tissue,

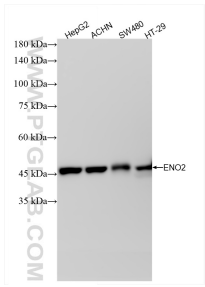
## Background Information

NSE, also named as ENO2, belongs to the enolase family. Enolases are cytoplasmic glycolytic enzymes that may be involved in differentiation. The enolase has three isoenzymes, alpha, beta and gamma. The alpha form is expressed in most tissues, whereas the beta form is expressed in muscle tissue. The gamma enolase (ENO2), a homodimer, is primarily localized in neurons and neuroendocrine cells and is a cancer diagnostic marker for brain tumors (PMID:7520111). ENO2 plays a role in the glycolysis-related energy pathway and might be involved in higher metabolic activity during the day than at night, at least in part.

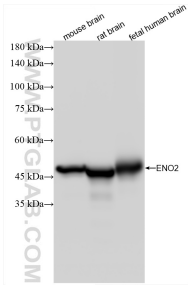
## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

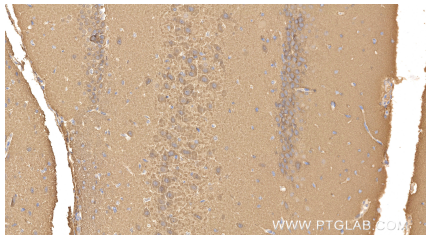
Selected Validation Data



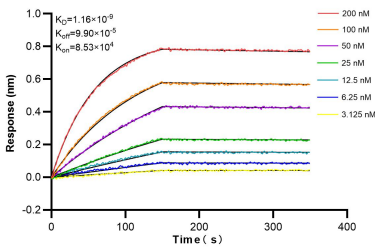
Various lysates were subjected to SDS PAGE followed by western blot with 86332-1-RR (ENO2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 86332-1-RR (ENO2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 86332-1-RR (NSE antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 86332-1-RR against Human NSE were performed. The affinity constant is 1.16 nM.