

## Product datasheet for DP2017

### Neuroglobin (NGB) Chicken Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>Western Blot.</b> <b>Immunohistochemistry.</b> <b>ELISA</b> (for determination of the titer): The titer of this antibody, measured by indirect ELISA, is >1:100,000 for antibody concentration 1 mg/ml, 25 ng of antigen are coated per well, and defined at a point of maximal decrease of the titration curve.
Reactivity:	Canine, Human, Rat
Host:	Chicken
Clonality:	Polyclonal
Immunogen:	Recombinant human neuroglobin. The Human Neuroglobin is created as a recombinant protein produced in E. coli. It is the 17 kDa protein containing 150 amino acid residues of the Human Neuroglobin and one extra AA, N-terminal methionin. The amino acid sequence of the recombinant human neuroglobin is 100% homologous with the amino acid sequence of the human neuroglobin.
Specificity:	This antibody recognizes Neuroglobin.
Formulation:	Azide Free, 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2 State: Aff - Purified State: Lyophilized purified IgG fraction Preservative: None
Reconstitution Method:	Restore with 0.05 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.
Concentration:	1.0 mg/ml (after reconstitution)
Purification:	Immunoaffinity chromatography on a column with immobilized recombinant Human Neuroglobin
Conjugation:	Unconjugated



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<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	neuroglobin
<b>Database Link:</b>	<a href="#">Entrez Gene 58157 Human Q9NPG2</a>
<b>Background:</b>	Neuroglobin, a 151 amino acid residue protein, mainly expressed in vertebrate brain and retina, is a recently identified member of the globin superfamily. Augmenting O <sub>2</sub> supply, neuroglobin promotes survival of neurons upon hypoxic injury, potentially limiting brain damage. Moreover, neuroglobin may be a novel oxidative stress-responsive sensor for signal transduction in the brain. Neuroglobin expression is increased by neuronal hypoxia in vitro and focal cerebral ischemia in vivo, and neuronal survival after hypoxia is reduced by inhibiting neuroglobin expression with an antisense oligodeoxynucleotide and enhanced by neuroglobin overexpression.
<b>Synonyms:</b>	NGB
<b>Note:</b>	<b>Quality Control Test</b> Indirect ELISA - to determine titer of the antibody. SDS PAGE - to determine purity of the antibody.