Nestin
Chicken Polyclonal Antibody

**Applications**
- WB, IF/ICC, IHC

**Host**
- Chicken

**Isotype**
- IgY

**Molecular Wt.**
- ~240kDa by SDS-PAGE

**Species Cross-Reactivity**
- Hu, Rt, Ms

**Recommended dilutions:**
- WB: 1:5,000, IF/IHC 1:500-1:1,000

**Storage:**
- Stable at 4°C for several months. For longer term store at -20°C, minimize freeze/thaw cycles.

**Format:**
- 5mM sodium azide

**RRID:**
- AB_2737583

**HGNC name:**
- NES

**Abbreviation Key:**
- mAb—Monoclonal Antibody
- pAb—Polyclonal Antibody
- WB—Western Blot
- IF—Immunofluorescence
- ICC—Immunocytochemistry
- IHC—Immunohistochemistry
- ELISA—Enzyme-linked immunosorbent assay
- PAGE—Polyacrylamide gel electrophoresis

**References:**

**Background:**

Nestin is a member of the class IV intermediate filament protein family which is expressed in neuroepithelial stem cells, which is the origin of the name nestin. Nestin was originally identified as a marker of resident stem cells, particularly in the dentate gyrus of the hippocampus and the olfactory bulb. The nestin amino acid sequence is relatively poorly conserved in protein sequence across species boundaries, so that the mouse and human proteins have an overall identity of only 62%. As a result, antibodies to the human protein often fail to recognize the rodent homologue and vice versa.

However this antibody works well on both human and rodent cells and tissues.

The CPCA-Nestin antibody was made against a purified recombinant construct corresponding to amino acids 317-630 of the human protein, a region of the C-terminal "tail" region of the molecule, and the CPCA-Nestin antibody produces strong staining of the developing radial glia and astrocytes and their processes.

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