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

**Western blot analysis**

**Immunofluorescence**
- Rat embryonic (E18) brain stained with chicken pAb to nestin, CPCA-Nestin, dilution 1:2,000 in red. Blue is Hoechst staining of nuclear DNA. CPCA-Nestin antibody produces strong staining of the developing radial glia and astrocytes and their processes.

**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 radial glia and other types of dividing cells in the developing central and peripheral nervous systems and in developing muscle. Nestin is expressed in many types of brain tumor in particular in gliomas (3,4). Nestin is expressed by radial glia and other types of dividing cells in the developing central and peripheral nervous systems and in developing muscle. Nestin is expressed in many types of brain tumor in particular in gliomas (3,4). Nestin is also a marker of stem cells in the pancreas (4) and heart (5) and reactive astrocytes following CNS injury (6). In the mature brain, nestin is useful as a marker of neuronal cells, particularly in the dentate gyrus of the hippocampus and the olfactory bulb.

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, see NCBI entry NP_006608.1. Although this region is relatively poorly conserved across species boundaries the CPCA-Nestin antibody is cross-reactive with both rodent and human nestin. We also supply a mouse monoclonal and a rabbit polyclonal antibody to the same recombinant human construct, MCA-4D11 and RPCA-Nestin respectively.

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**Abbreviation Key:**
- mAb—Monoclonal Antibody
- pAb—Polyclonal Antibody
- WB—Western Blot
- IF—Immunofluorescence
- ICC—Immunocytochemistry
- IHC—Immunohistochemistry
- E—ELISA
- Hu—Human
- Mo—Monkey
- Do—Dog
- Rt—Rat
- Ms—Mouse
- Co—Cow
- PI—Pig
- Ho—Horse
- Ch—Chicken
- Dr—D. rerio
- Sm—M. musculus
- Ce—C. elegans
- Sc—S. cerevisiae
- Sa—S. aureus
- Ec—E. coli.