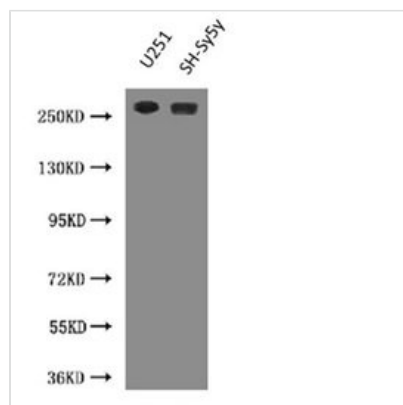




# NES Monoclonal Antibody

|                            |                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-MA0157131A0m                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>             | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.                                                                                                                                                                                                                                                                                                                               |
| <b>Uniprot No.</b>         | P48681                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen</b>           | Recombinant Human Nestin protein                                                                                                                                                                                                                                                                                                                                                            |
| <b>Raised In</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species Reactivity</b>  | Human                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>         | Specific for Human Nestin denatured and native forms                                                                                                                                                                                                                                                                                                                                        |
| <b>Tested Applications</b> | ELISA, WB, IHC, IF, FC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500, IF:1:50-1:200                                                                                                                                                                                                                                                                                                |
| <b>Relevance</b>           | Required for brain and eye development. Promotes the disassembly of phosphorylated vimentin intermediate filaments (IF) during mitosis and may play a role in the trafficking and distribution of IF proteins and other cellular factors to daughter cells during progenitor cell division. Required for survival, renewal and mitogen-stimulated proliferation of neural progenitor cells. |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conjugate</b>           | Non-conjugated                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>      | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                                                                                                                                                                                                                                                                                                            |
| <b>Purification Method</b> | >95%, Protein G purified                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>             | IgG1                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Clonality</b>           | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Alias</b>               | Nestin, NES, Nbla00170                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Type</b>        | Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen Species</b>   | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Clone No.</b>           | 2C2F7                                                                                                                                                                                                                                                                                                                                                                                       |

## Image



### Western Blot

Positive WB detected in: U251 whole cell lysate,

SH-SY5Y whole cell lysate

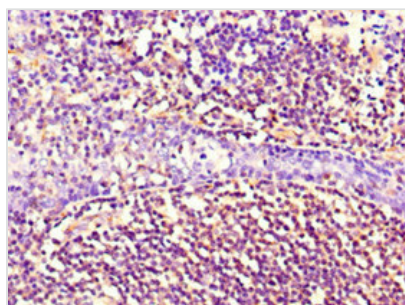
All lanes: NES antibody at 3µg/ml

Secondary

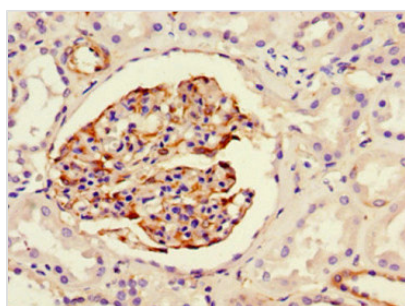
Goat polyclonal to Mouse IgG at 1/10000 dilution

Predicted band size: 178 kDa

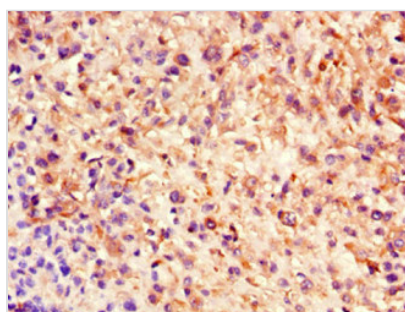
Observed band size: 260 kDa



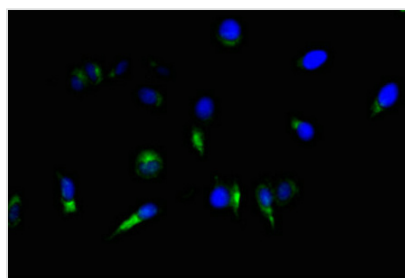
Immunohistochemistry of paraffin-embedded human tonsil tissue using CSB-MA0157131A0m at dilution of 1:100



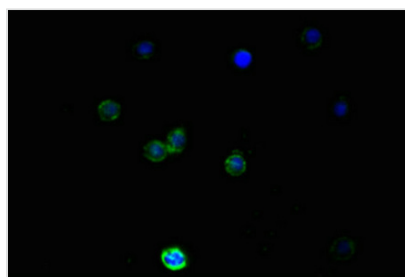
Immunohistochemistry of paraffin-embedded human kidney tissue using CSB-MA0157131A0m at dilution of 1:100



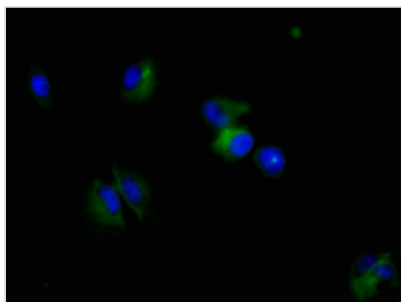
Immunohistochemistry of paraffin-embedded human melanoma using CSB-MA0157131A0m at dilution of 1:100



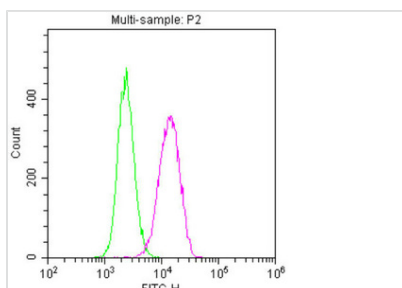
Immunofluorescent analysis of Hela cells using CSB-MA0157131A0m at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



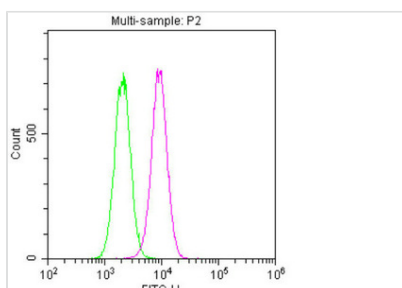
Immunofluorescent analysis of PC-3 cells using CSB-MA0157131A0m at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of U251 cells using CSB-MA0157131A0m at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Overlay histogram showing U251 cells stained with CSB-MA0157131A0m (red line). The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (10 $\mu$ g/1\*10<sup>6</sup>cells) for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was mouse IgG1 (10 $\mu$ g/1\*10<sup>6</sup>cells) used under the same conditions. Acquisition of >10,000 events was performed.



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