

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human Neurogenin-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Neurogenin-3 is observed. |
| Source | Monoclonal Mouse IgG ₁ Clone # 309707 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human Neurogenin-1 Ala145-His237 Accession # NP_006152 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---------------------|----------------------------------|--------------------------------|
| Western Blot | 1 µg/mL | Recombinant Human Neurogenin-1 |

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Neurogenin-1 is a 26 kDa developmentally expressed nuclear protein of the basic helix-loop-helix (bHLH) family, class B subfamily. bHLH proteins are transcription factors that form dimers to bind DNA. NGN1 is expressed only in embryonic neural tissue and supports neuronal differentiation but inhibits glial cell differentiation. Human Neurogenin-1 shows 93% amino acid identity with both mouse and rat Neurogenin-1 over the sequence used as an immunogen.