

DESCRIPTION

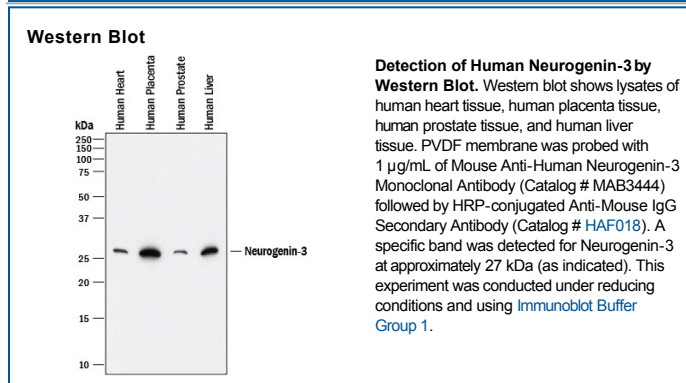
Species Reactivity	Human
Specificity	Detects human Neurogenin-3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Neurogenin-1 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 258602
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Neurogenin-3 Met1-Leu214 Accession # Q9Y4Z2
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 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	See Below

DATA



PREPARATION AND STORAGE

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-3 (NGN3) is a 23 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. Neurogenin-3 expression is required for all endocrine lineage differentiation in the pancreas, including formation of islet β cells. Neurogenin-3 is also neurogenic, controlling the number of dendrites developed by hippocampal neurons. Human Neurogenin-3 shows 76% and 77% amino acid identity with mouse and rat Neurogenin-3, respectively.