Human Neurogenin-3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF3444

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Neurogenin-3 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse Neurogenin-3 is observed, and less than 1% cross-reactivity with recombinant human Neurogenin-1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-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.

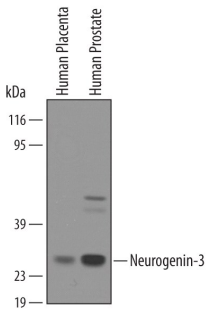
APPLICATIONS

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

Western Blot



Detection of Human Neurogenin-3 by Western Blot. Western blot shows lysates of human placenta and prostate tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human Neurogenin-3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3444) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Neurogenin-3 at approximately 25 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.** ● 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; also Protein atonal homolog 5) is a 23 kDa, developmentally expressed nuclear protein that belongs to a family of atonal-related basic helix-loop-helix (bHLH) transcription factors. bHLH proteins typically form dimers when binding to DNA. NGN3 expression is required for the lineage differentiation of all endocrine cell types in the pancreas, including the formation of islet β cells. NGN3 is also neurogenic, controlling the number of dendrites generated by hippocampal neurons. Human NGN3 is 214 amino acids (aa) in length. It contains a DNA binding region (aa 84-95) plus an HLH motif (aa 96-136). Over aa 3-214, human NGN3 shares 76% and 84% aa identity with mouse and canine NGN3, respectively.

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