

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	<i>E. coli</i> -derived recombinant human Neurogenin-3 Met1-Leu214 Accession # Q9Y4Z2
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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