

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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) 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.

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