OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA500090

Neurogenin3 (NEUROG3) Mouse Monoclonal Antibody [Clone ID: OTI5A8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5A8
Applications:	IHC, IP
Recommended Dilution:	IHC: 1:150
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant fragment expressed in E.coli corresponding to amino acids 1-214of human Ngn3
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	22.9 kDa
Gene Name:	neurogenin 3
Database Link:	NP_066279 Entrez Gene 50674 Human Q9Y4Z2
Background:	Neurogenin-3 (NEUROG3) is expressed in endocrine progenitor cells and is required for endocrine cell development in the pancreas and intestine (Wang et al., 2006 [PubMed 16855267]). It belongs to a family of basic helix-loop-helix transcription factors involved in the determination of neural precursor cells in the neuroectoderm (Gradwohl et al., 2000 [PubMed 10677506]).[

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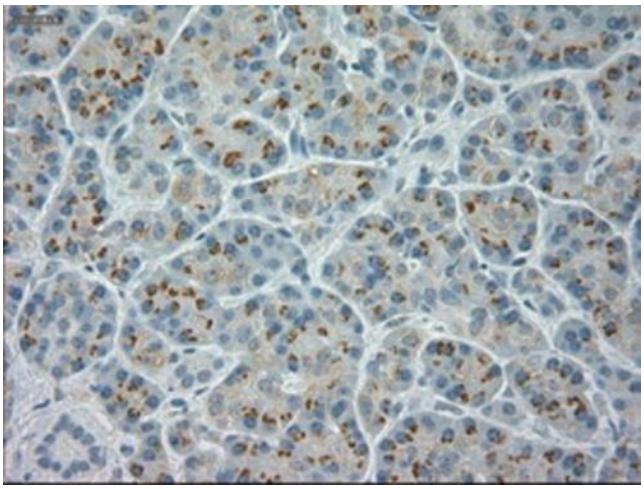
Synonyms: Atoh5; bHLHa7; Math4B; NGN-3; ngn3

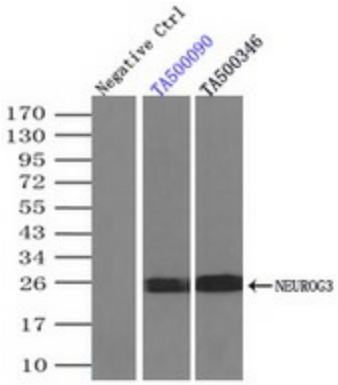
Protein Families: ES Cell Differentiation/IPS

Protein Pathways: Maturity onset diabetes of the young

Product images:



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-NEUROG3 mouse monoclonal antibody (TA500090) at 1:150 dilution at 1:150 dilution. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunoprecipitation of NEUROG3 by using TrueMab monoclonal anti-NEUROG3 antibody (Negative control: IP without adding anti-NEUROG3 antibody). For each experiment, 500ul of DDK tagged NEUROG3 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-NEUROG3 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.