

## Product datasheet for **TA500090BM**

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

#### Product data:

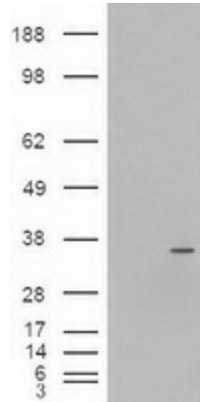
Product Type:	Primary Antibodies
Clone Name:	OTI5A8
Applications:	IHC, IP, WB
Recommended Dilution:	WB: 1:500, IHC: 1:150
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant fragment expressed in E.coli corresponding to amino acids 1-214 of human Ngn3
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
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:	<a href="#">NP_066279</a> <a href="#">Entrez Gene 50674 Human</a> <a href="#">Q9Y4Z2</a>
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]).



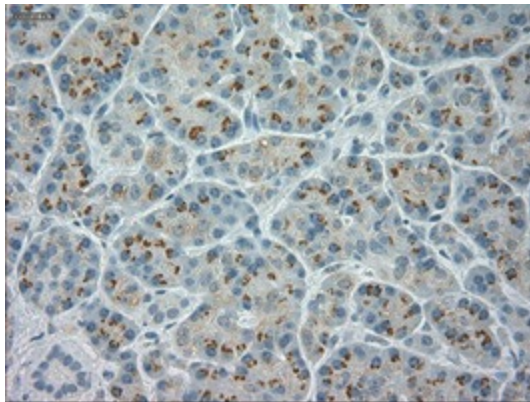
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**Synonyms:** Atoh5; bHLHa7; Math4B; NGN-3; ngn3  
**Protein Families:** ES Cell Differentiation/IPS  
**Protein Pathways:** Maturity onset diabetes of the young

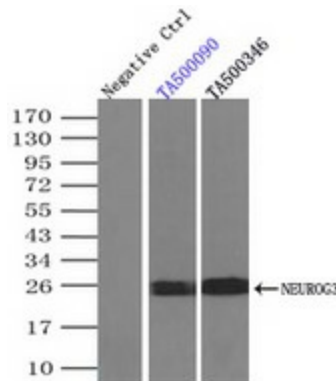
**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NEUROG3 [RC224767], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NEUROG3. Positive lysates [LY402827] (100ug) and [LC402827] (20ug) can be purchased separately from OriGene.



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.



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 immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.