

## Product datasheet for TA500346

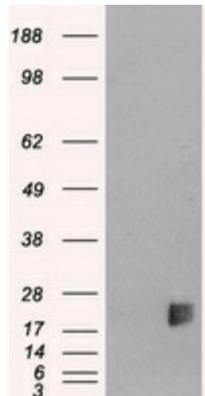
### Neurogenin3 (NEUROG3) Mouse Monoclonal Antibody [Clone ID: OTI3B5]

#### Product data:

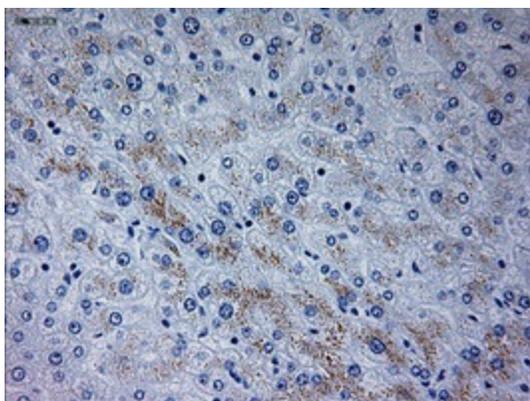
Product Type:	Primary Antibodies
Clone Name:	OTI3B5
Applications:	IF, IHC, IP, WB
Recommend Dilution:	WB 1:2000, IHC 1:50 - 1:150, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full-length protein expressed in 293T cell transfected with human NEUROG3 expression vector
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide
Concentration:	1.3 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	23.077 kDa
Gene Name:	neurogenin 3
Database Link:	<a href="#">NP_066279 Entrez Gene 50674 Human</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
Synonyms:	Atoh5; bHLHa7; Math4B; NGN-3; ngn3
Protein Families:	ES Cell Differentiation/IPs
Protein Pathways:	Maturity onset diabetes of the young



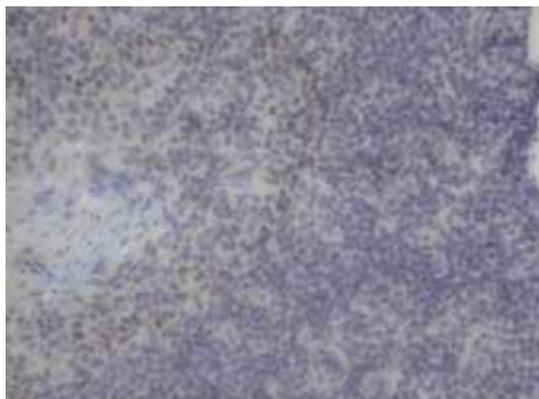
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**Product images:**

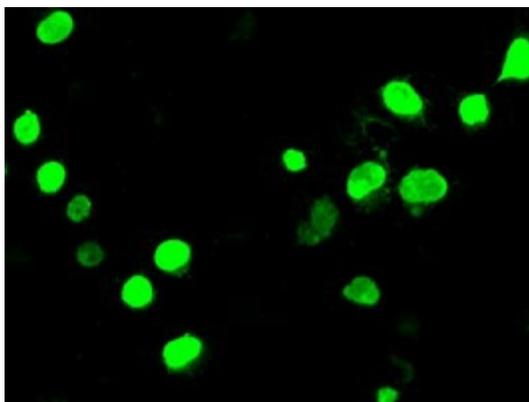
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NEUROG3 [RC224767], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NEUROG3. Positive lysates [LY402827] (100ug) and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



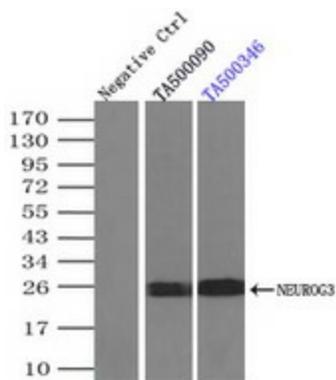
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-NEUROG3 mouse monoclonal antibody (TA500346) at 1:150 dilution.



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-NEUROG3 mouse monoclonal antibody (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min).



Anti-NEUROG3 mouse monoclonal antibody (NEUROG3) immunofluorescent staining of HeLa cells transiently transfected by pCMV6-ENTRY NEUROG3 ([RC224767]).



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.